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Residential Natural Gas Market

Survey: 1992

45th Annual Survey
Natural Gas Utility Industry
United States

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Contents

		Page
Introduction		1
I.	Executive Summary	3
II.	United States Housing Market in 1992	5
	New Housing Completions	5
	Existing Housing	8
III.	Residential Natural Gas Customers in 1992	10
	Total Residential Customers	10
	Householeating Customers	10
	Natural Gas Householeating Unit Additions	10
	Householeating Conversions	12
IV.	Residential Natural Gas Consumption	14
	Natural Gas Consumption per Unit	14
	Heating Bills	16

Appendix 1 - 1992 Householeating Customer and Consumption Data By Company

Appendix 2 - 1992 Competitive Fuel Prices By Company

Appendix 3- 1992 Additions from New Construction and Conversions

Appendix 4- Census Regions, Divisions and Corresponding States

List of Tables

		Page
1.	1992 Private Housing Completions by Heating Fuel	6
2.	A Comparison of 1991 and 1992 Private Housing Completions	7
3.	Market Share of Private Housing Completions by Heating Fuel (1974-1992)	8
4.	1990 Househeating Fuel (Existing Housing)	9
5.	Customers and Unit Additions (as of December 31, 1992)	11
6.	Househeating Conversions to Natural Gas by Fuel by Region	12
7.	Househeating Conversions to Natural Gas by Fuel (1982-1992)	12
8.	1992 Average Natural Gas Consumption/Unit by Region	15
9.	1991 and 1992 Natural Gas Househeating Bills by Division	16

List of Figures

1.	Natural Gas vs. Electric Single Family Home Completions 1981-1992	3
2.	Housing Completions by Region - 1992	5
3.	Market Share of Gas and Electric Housing Completions	6
4.	Househeating Additions by Region - 1992	10
5.	Househeating Conversions to Natural Gas by Fuel	13

INTRODUCTION

This year's report is the 45th annual Residential Natural Gas Market Survey conducted by the American Gas Association. The data collected for 1992 provide a unique and comprehensive portrait of the residential natural gas market. Detailed information is presented by state and region, including customers, market share, inventory additions from new homes, and conversions from alternative fuels. **Company-specific data are reported in Appendices 1, 2 and 3.**

A total of 152 natural gas utility companies responded to this year's survey, up from 146 responses in 1991. Those companies operating in more than one state completed a questionnaire for each state in which they operate, resulting in 210 individual forms submitted. The respondent companies represented the vast majority of the nation's residential natural gas customers, i.e., some 91 percent in 1992. The information provided by these utilities was expanded to obtain the state and national customer totals shown in Table 5. Individual company data are listed by region and state in Appendices 1, 2 and 3. Included in Appendix 3 are 1993 forecasts for additions from new construction, conversions and losses. Please note that some tabular data may not add to totals due to rounding.

Incorporated in the survey results are data regarding new private housing completions from the U.S. Bureau of the Census. The source of this data is different from the statistics compiled form the survey respondents and should be evaluated separately from each other.

Our thanks go to those companies participating in the 1992 Residential Natural Gas Market Survey information-gathering effort. Their cooperation and support are the essential elements that have made this publication a primary source of natural gas utility industry data, and an important industry reference.

Credit also goes to Project Statisticians Craig Davis and Carole Hopkins; Manager, Statistical Services Donna Baranik; Director, Statistical Services Ellen Hahn; and Supply and Statistics Secretary Lisa Ramey. Also contributing to the effort were Bob Kalisch, Senior Director, Gas Supply and Statistics, and Nelson Hay, Staff Vice President, Policy and Analysis Group.

I. Executive Summary

•The residential natural gas customer count exceeded 52 million in 1992, a 2.1 percent increase from 1991. Consistent with the 1991 survey, more than 88 percent of these natural gas customers use natural gas for house heating purposes.

•Total conversions of existing units from other fuels to natural gas househeating were close to 300,000 in 1992, up 13.6 percent from last year's level. Based on A.G.A. survey data, 125,478 or 42 percent of all heating conversions were from fuel oil to natural gas, 95,735 (32%) were from electricity, 47,656 (16%) from LPG, and 88,409 (10%) from "other fuels" (coal, wood, and non-classified).

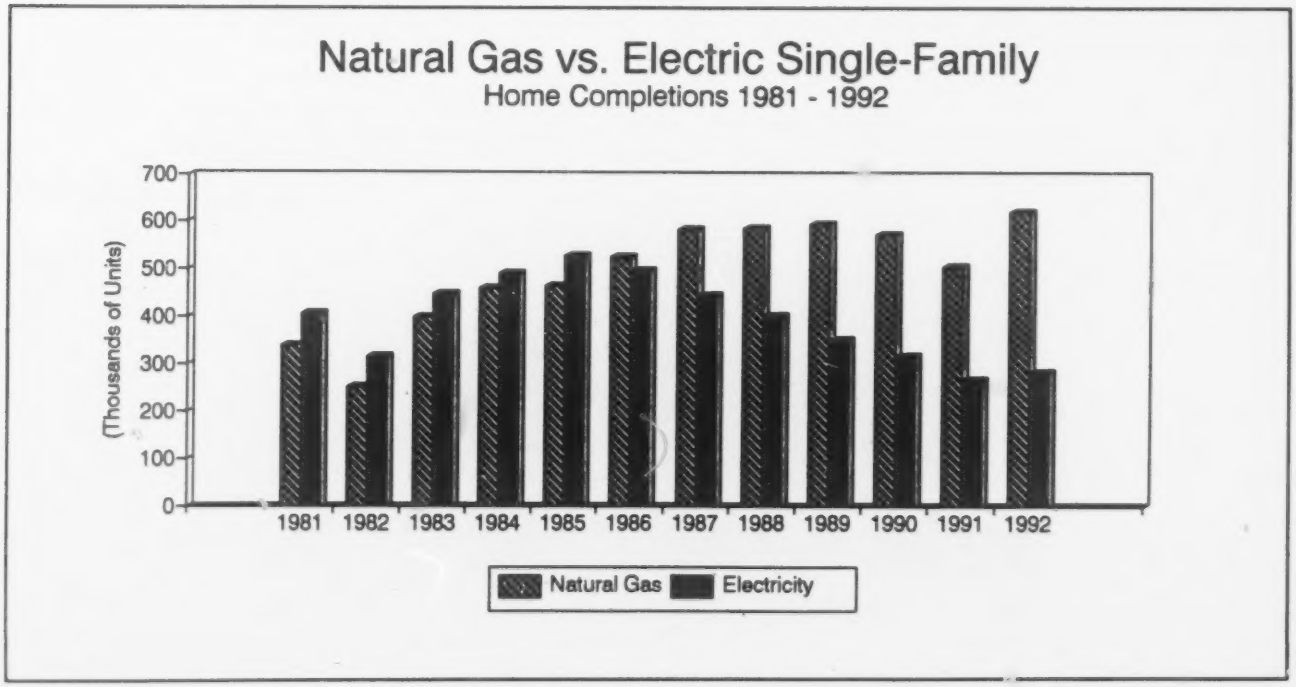
•Compared with 1991, the largest gains in conversions were in the East North Central and the East South Central regions. The largest gain was in conversions from electricity, which increased by 41 percent over 1991.

•The gas share of the new housing market increased to record levels in 1992, according to the Bureau of the Census. New gas single-family homes completed registered a 65 percent market share, up from 60 percent in 1991. This is an unprecedented increase in market share for gas. When both single-family and multi-family units are considered, the gas share of new housing completions increased to 63 percent in 1992 from 56 percent in 1991. This is the highest market share any fuel has held. The overall electric share dropped to 32 percent from 37 percent. Total new housing completions (both single- and multi-family) increased from 1.09 million units in 1991 to 1.16 million units in 1992 or 5.9 percent.

•Total natural gas househeating unit additions from new construction numbered 620,835 in 1992, a 2.8 percent increase from 1991, as reported by survey respondents. This increase is consistent with the rise in single- and multi-family housing completions in 1992 compared with 1991, as reported by the Bureau of the Census. The addition of new natural gas househeating units from conversions in 1992 increased 13.6 percent from 1991, nearing 300,000 units. Total additions from both new constructions and conversions were 918,113 in 1992, a 6.1 percent increase from 1991.

•The annual natural gas househeating bill for a single-family home increased in 1992 by 2.8 percent from $395 to $406. This is due to slightly higher gas prices in 1992 compared with 1991. Changes ranged from a 0.6 percent decline in the Mountain division to a 13.1 percent increase in the West North Central.

Figure 1



II. United States Housing Market In 1992

New Housing Completions

The U.S. housing market increased 5.9 percent in 1992 from 1991, with new completions totaling 1,156,000.

Natural gas continued to dominate in the new single-family home market, with new gas single-family completions increasing to 621,000 in 1992 from 505,000 in 1991 according to the U.S. Census Bureau (See Table 1). This 23.0 percent increase is higher than the 14.8 percent increase in all single-family home completions, resulting in an increased gas market share of 65 percent in 1992. **This is the highest level of gas market share of new single- family home completions since statistics became available.** The 1992 electric market share of new home completions decreased to 29 percent, down from 32 percent in 1991. Gas single-family home completions have exceeded electric completions for the seventh consecutive year.

In the multi-family housing arena, gas showed an unprecedented 11 percentage point increase in market share, rising from 41 percent in 1991 to 52 percent in 1992. This increase was at the expense of electricity where market share decreased from 55 percent in 1991 to 44 percent in 1992. Both electricity and gas showed an absolute decline in the number of multi-family units completed in 1992 compared with 1991. Gas multi-family units completed fell 2,000 while electric multi-family units completed dropped 53,000. For 1992, 101,000 multi-family units were completed using gas as a heating fuel.

When both single- and multi-family units are considered, gas market househeating share of new housing increased from 56 percent in 1991 to 63 percent in 1992. **Again, this is the highest level of gas market share since comparative statistics became available.** Electric househeating market share dropped to 32 percent in 1992 from 37 percent in 1991.

Tables 1 and 2 present the regional breakdown of units completed by type of fuel. Gas single-family home completions again outnumbered electric completions in all regions. Also of note is an increase of gas market share in the South and West. Gas market share increased 6 percentage points compared with 1991, while electric market share fell 4 percentage points in the South and West regions. In the multi-family sector, gas completions were higher than electric completions in all regions but the South. However, gas market share still increased by 4 percentage points, rising from 23 percent in 1991 in the South to 27 percent in 1992. There was a notable increase in both gas market share and number of completions in the Northeast and Midwest regions. In the Northeast, builders installed gas heat in 70 percent of the multi-family units completed in 1992, compared with 52 percent in 1991. The Midwest region saw large gains in gas market share in 1992, with an increase of 19 percentage points for multi-family units completed with gas heat and a corresponding 19 percentage point decline in the electric market share.

Table 3 shows new housing market share data from 1974-1992. The overall new housing market share of gas and electricity has reversed itself from 38 percent gas and 54 percent electricity in 1974 to 63 percent gas and 32 percent electricity in 1992.

Figure 2

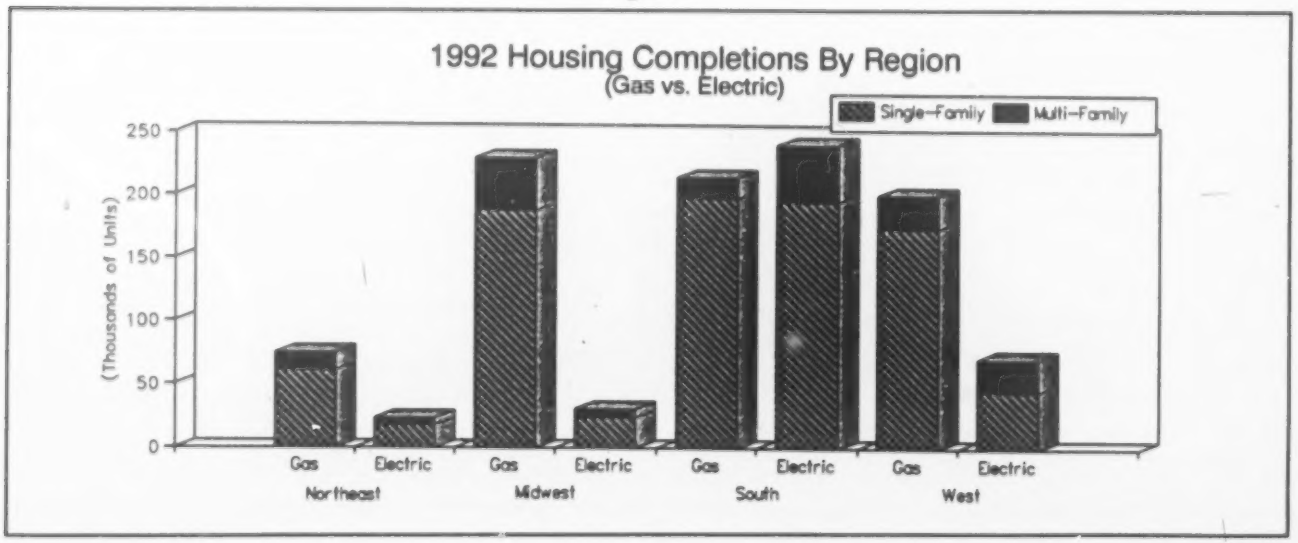


Figure 3

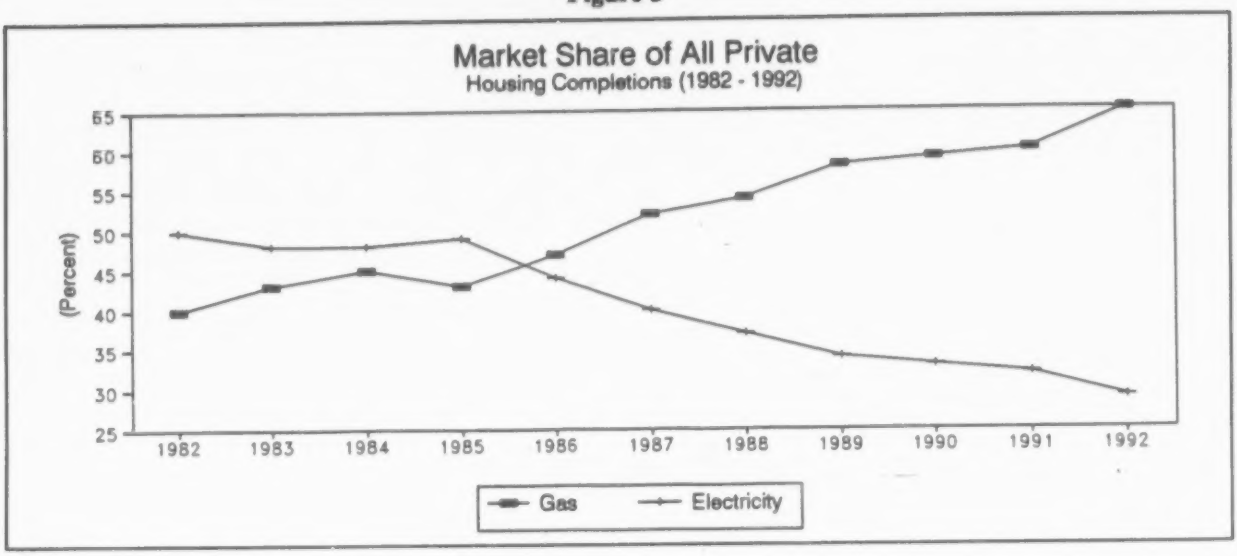


Table 1

1992 PRIVATE HOUSING COMPLETIONS - BY HEATING FUEL

(Thousands of Units)

Single-Family	Share	Units	Northeast	Midwest	South	West
Natural Gas[a]	65%	621	61	188	198	174
Electricity	29%	282	18	24	195	45
Oil	4%	37	34	B	B	B
Other	2%	22	B	4	5	11
Subtotal	100%	962	113	216	398	230
Multi-Family						
Natural Gas[a]	52%	101	14	42	17	27
Electricity	44%	86	6	7	46	26
Oil	1%	1	Z	Z	Z	Z
Other	3%	6	Z	S	Z	5
Subtotal	100%	194	20	49	63	58
Combined						
Natural Gas[a]	63%	722	75	230	215	201
Electricity	32%	368	24	31	241	71
Oil	3%	38	34	B/Z	B/Z	B/Z
Other	2%	28	B/Z	4	5	16
Total	100%	1,156	133	265	461	288

[a]Includes liquefied petroleum gas. B = Insufficient sample size

Z = less than 500 units. S = did not meet publication standards

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1992.

Table 2

A COMPARISON OF 1991 & 1992 PRIVATE HOUSING COMPLETIONS
(Percent of Market)

	TOTAL U.S. 1991/1992	NORTHEAST 1991/1992	MIDWEST 1991/1992	SOUTH 1991/1992	WEST 1991/1992
Single Family					
*Gas	60%/65%	50%/54%	85%/87%	44%/50%	70%/76%
Electricity	32%/29%	16%/16%	11%/11%	53%/49%	22%/20%
Oil	4%/4%	32%/30%	B	B	B
Other	3%/2%	B	2%/2%	2%/1%	8%/5%
Multi Family					
*Gas	41%/52%	52%/70%	67%/86%	23%/27%	39%/47%
Electricity	55%/44%	33%/30%	33%/14%	75%/73%	53%/45%
Oil	1%/1%	B	Z	Z	Z
Other	4%/3%	B	Z	Z	7%/9%
Combined					
*Gas	56%/63%	50%/56%	81%/87%	40%/47%	61%/70%
Electricity	37%/32%	19%/18%	16%/12%	58%/52%	31%/25%
Oil	4%/3%	32%/30%	B/Z	B/Z	B/Z
Other	3%/2%	B	2%/2%	2%/1%	8%/6%

*Includes liquefied petroleum gas
B = Insufficient sample size
Z = Less than 500 units

Table 3

MARKET SHARE OF PRIVATE HOUSING COMPLETIONS BY HEATING FUEL
1974-1992

Single-Family	**1974**	**1980**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**
Natural Gas[a]	41%	41%	43%	47%	52%	54%	58%	59%	60%	65%
Electricity	49	50	49	44	40	37	34	33	32	29
Oil	9	3	3	5	5	6	5	5	4	4
Other	1	5	4	4	3	3	3	3	4	2
Multi-Family										
Natural Gas[a]	35%	30%	31%	35%	41%	44%	42%	44%	41%	52%
Electricity	60	66	67	63	56	53	54	53	55	44
Oil	4	2	1	1	1	4	5	1	1	1
Other	1	1	1	1	2	7	11	2	4	3
Combined										
Natural Gas[a]	38%	37%	39%	43%	48%	51%	53%	55%	56%	63%
Electricity	54	56	56	51	45	42	40	38	37	32
Oil	7	3	2	3	4	4	4	4	4	3
Other	1	4	3	3	3	3	3	3	3	2

[a]Includes liquefied petroleum gas

Source: U.S. Bureau of the Census, Characteristics of Housing: 1992.

Existing Housing

According to the 1990 Census data, 56.7 percent of existing homes use gas (both natural and liquefied petroleum) for househeating purposes (see Table 4). Gas holds the largest market share in the historically cold region of the East North Central and the lowest market share in the warmer South Atlantic division. The only divisions where natural gas does not have the largest market share are in New England, where fuel oil and kerosene heat more homes, and in the South Atlantic, where electricity has a higher market share.

TABLE 4

1990 HOUSE HEATING FUEL MARKET SHARE (PERCENT USING)

Region, Division and State	NATURAL AND LP GAS	NATURAL GAS ONLY	ELECTRICITY	FUEL OIL/ KEROSENE	COAL OR COKE	WOOD	SOLAR ENERGY	OTHER FUEL	NO FUEL USED	TOTAL
TOTAL US	56.7	51.0	25.8	12.2	0.4	3.9	0.1	0.4	0.6	100.0
NORTHEAST	46.2	43.9	11.4	38.2	0.9	2.4	0.0	0.6	0.3	100.0
NEW ENGLAND	31.4	28.7	13.0	50.6	0.4	4.0	0.0	0.3	0.2	100.0
CONNECTICUT	28.2	26.3	15.1	54.4	0.3	1.6	0.0	0.2	0.2	100.0
MAINE	3.7	1.8	11.7	69.5	0.7	14.1	0.1	0.2	0.1	100.0
MASSACHUSETTS	40.1	38.0	13.5	44.0	0.3	1.5	0.0	0.3	0.3	100.0
NEW HAMPSHIRE	21.3	15.2	12.4	55.8	0.9	9.0	0.1	0.3	0.2	100.0
RHODE ISLAND	43.0	40.7	7.9	47.0	0.2	1.4	0.0	0.2	0.1	100.0
VERMONT	18.5	8.0	9.1	54.3	0.7	17.0	0.1	0.2	0.2	100.0
MIDDLE ATLANTIC	51.4	49.3	10.9	33.7	1.1	1.9	0.0	0.7	0.4	100.0
NEW JERSEY	59.4	57.5	10.0	29.2	0.1	0.5	0.0	0.4	0.3	100.0
NEW YORK	48.1	45.7	8.5	39.6	0.2	2.0	0.0	1.0	0.5	100.0
PENNSYLVANIA	51.2	49.5	14.8	27.9	2.9	2.6	0.0	0.4	0.2	100.0
MIDWEST	76.5	69.3	12.8	6.2	0.1	3.5	0.0	0.6	0.3	100.0
EAST NORTH CENTRAL	77.2	71.9	12.2	6.5	0.2	3.0	0.0	0.6	0.3	100.0
ILLINOIS	84.6	80.3	11.2	1.8	0.1	1.0	0.0	0.7	0.5	100.0
INDIANA	69.6	63.1	19.3	6.2	0.2	4.2	0.0	0.4	0.2	100.0
MICHIGAN	83.0	76.9	5.4	6.9	0.1	3.9	0.0	0.5	0.2	100.0
OHIO	72.0	68.2	16.8	7.5	0.4	2.5	0.0	0.7	0.2	100.0
WISCONSIN	69.4	61.0	9.3	14.6	0.0	5.9	0.0	0.6	0.2	100.0
WEST NORTH CENTRAL	74.8	63.5	14.0	5.6	0.1	4.7	0.0	0.6	0.2	100.0
IOWA	80.4	65.6	10.5	5.5	0.0	2.9	0.0	0.5	0.2	100.0
KANSAS	84.7	75.9	11.8	0.3	0.0	2.9	0.1	0.2	0.1	100.0
MINNESOTA	71.1	62.9	10.5	11.9	0.1	4.9	0.0	1.2	0.5	100.0
MISSOURI	72.4	60.4	18.1	1.5	0.0	7.6	0.0	0.2	0.1	100.0
NEBRASKA	81.2	70.2	13.6	2.5	0.0	2.1	0.0	0.5	0.1	100.0
NORTH DAKOTA	53.7	39.7	26.2	15.7	1.7	1.2	0.0	0.9	0.6	100.0
SOUTH DAKOTA	63.0	43.0	17.8	13.6	0.2	4.2	0.0	0.8	0.4	100.0
SOUTH	45.1	37.0	42.8	6.9	0.4	4.3	0.0	0.2	0.4	100.0
SOUTH ATLANTIC	33.9	26.8	48.8	12.2	0.3	4.0	0.1	0.2	0.6	100.0
DELAWARE	37.3	30.5	21.8	38.5	0.2	1.7	0.0	0.2	0.2	100.0
DISTRICT OF COLUMBIA	65.5	63.5	20.5	12.5	0.0	0.0	0.1	0.6	0.8	100.0
FLORIDA	14.7	7.5	78.8	4.1	0.0	0.8	0.1	0.1	1.5	100.0
GEORGIA	67.1	53.3	27.2	1.5	0.0	3.8	0.0	0.1	0.2	100.0
MARYLAND	45.4	43.2	29.6	22.1	0.3	1.9	0.0	0.3	0.3	100.0
NORTH CAROLINA	27.1	18.6	42.0	22.5	0.1	7.8	0.1	0.2	0.2	100.0
SOUTH CAROLINA	33.8	24.6	46.9	13.2	0.1	5.7	0.0	0.1	0.2	100.0
VIRGINIA	31.5	28.9	40.1	20.2	0.8	6.7	0.0	0.3	0.3	100.0
WEST VIRGINIA	53.5	50.7	25.3	7.8	4.0	9.0	0.0	0.3	0.1	100.0
EAST SOUTH CENTRAL	50.0	39.0	38.1	2.8	1.2	7.6	0.0	0.2	0.1	100.0
ALABAMA	58.4	42.8	34.6	1.2	0.3	5.3	0.0	0.1	0.1	100.0
KENTUCKY	53.3	45.6	30.0	4.8	3.2	8.2	0.0	0.3	0.2	100.0
MISSISSIPPI	60.9	40.8	30.6	0.5	0.0	7.8	0.0	0.1	0.1	100.0
TENNESSEE	35.5	30.0	50.5	3.8	0.9	9.0	0.0	0.1	0.1	100.0
WEST SOUTH CENTRAL	61.2	53.1	35.5	0.2	0.0	2.8	0.0	0.1	0.2	100.0
ARKANSAS	64.4	52.8	22.7	0.2	0.0	12.5	0.0	0.1	0.1	100.0
LOUISIANA	60.9	55.1	36.2	0.3	0.0	2.3	0.0	0.1	0.2	100.0
OKLAHOMA	74.4	64.4	20.5	0.1	0.0	4.7	0.0	0.2	0.1	100.0
TEXAS	58.2	50.4	40.2	0.1	0.0	1.2	0.0	0.1	0.2	100.0
WEST	63.3	59.8	26.7	2.5	0.2	5.3	0.2	0.3	1.6	100.0
MOUNTAIN	64.0	58.5	27.4	1.5	0.5	5.7	0.2	0.4	0.2	100.0
ARIZONA	44.0	39.5	51.4	0.2	0.2	3.6	0.1	0.1	0.4	100.0
COLORADO	81.8	77.0	12.9	0.3	0.4	3.3	0.3	0.7	0.3	100.0
IDAHO	31.3	28.2	39.8	9.0	1.3	18.0	0.1	0.5	0.1	100.0
MONTANA	61.7	54.2	17.9	4.1	0.8	14.7	0.1	0.5	0.1	100.0
NEVADA	53.7	47.7	39.3	3.7	0.1	2.6	0.1	0.3	0.2	100.0
NEW MEXICO	82.0	70.1	9.1	0.3	0.2	7.6	0.6	0.2	0.1	100.0
UTAH	84.2	81.9	9.5	1.3	1.3	3.2	0.1	0.2	0.1	100.0
WYOMING	72.0	62.9	16.5	0.7	2.2	7.9	0.2	0.4	0.2	100.0
PACIFIC	63.0	60.3	26.5	2.9	0.0	5.2	0.1	0.3	2.0	100.0
ALASKA	44.7	42.8	11.8	32.3	1.7	7.7	0.0	1.3	0.5	100.0
CALIFORNIA	76.3	73.2	19.2	0.3	0.0	3.1	0.1	0.2	0.8	100.0
HAWAII	5.3	3.3	37.9	0.2	0.0	0.5	1.6	0.0	54.5	100.0
OREGON	26.2	24.7	44.6	11.4	0.0	16.9	0.1	0.6	0.2	100.0
WASHINGTON	23.6	22.4	55.1	9.9	0.1	10.6	0.0	0.5	0.2	100.0

Source: U.S. Bureau of the Census

III. Residential Natural Gas Customers in 1992

Total Residential Customers

The total number of residential natural gas customers topped 52 million in 1992, a 2.1 percent increase over 1991 (see Table 5). The East South Central and Mountain divisions registered the highest increases where the residential customer counts rose 5.7 percent and 3.2 percent, respectively.

Most utilities define a customer as a single meter. The number of customers reported is expanded, based on the sample of companies responding to the survey, to reflect the universe of customers.

The responding companies anticipate that the number of total residential natural gas customers will increase 1.5 percent in 1993, a slightly lower increase than experienced in 1992.

The number of residential customers buying their gas via transportation arrangements, reported by the survey participants, rose 6.6 percent to 18,939 in 1992 compared with 17,759 in 1991. Residential transportation customers were concentrated in Illinois, New York and California. The customers in these 3 states accounted for 97 percent of all residential transportation customers. Specifically 38 percent of the total 18,939 customers were located in Illinois, 31 percent in New York and 28 percent in California.

Househeating Customers

About 46 million customers or 88.3 percent of all 1992 residential natural gas customers were househeating customers. This represents a 2.1 percent increase from 1991. In 1993, the number of househeating customers is expected to increase by 1.7 percent from 1992.

Natural Gas Househeating Unit Additions

The natural gas househeating unit additions increased 6.1 percent, from 865,572 in 1991 to 918,113 in 1992. Of the total additions, 620,835 were from new housing. The remaining 297,278 were added from conversions of existing households to natural gas heat.

Figure 4 shows the relative proportion of new househeating unit additions for each of the nine census divisions in 1992. The unit additions are actual totals, not expanded to reflect the entire potential market. The figure shows how conversions play a larger relative role in New England and the Middle Atlantic. New additions play a relatively large role in the Pacific region, reflecting population growth, and in the East North Central and West South Central regions.

Figure 4

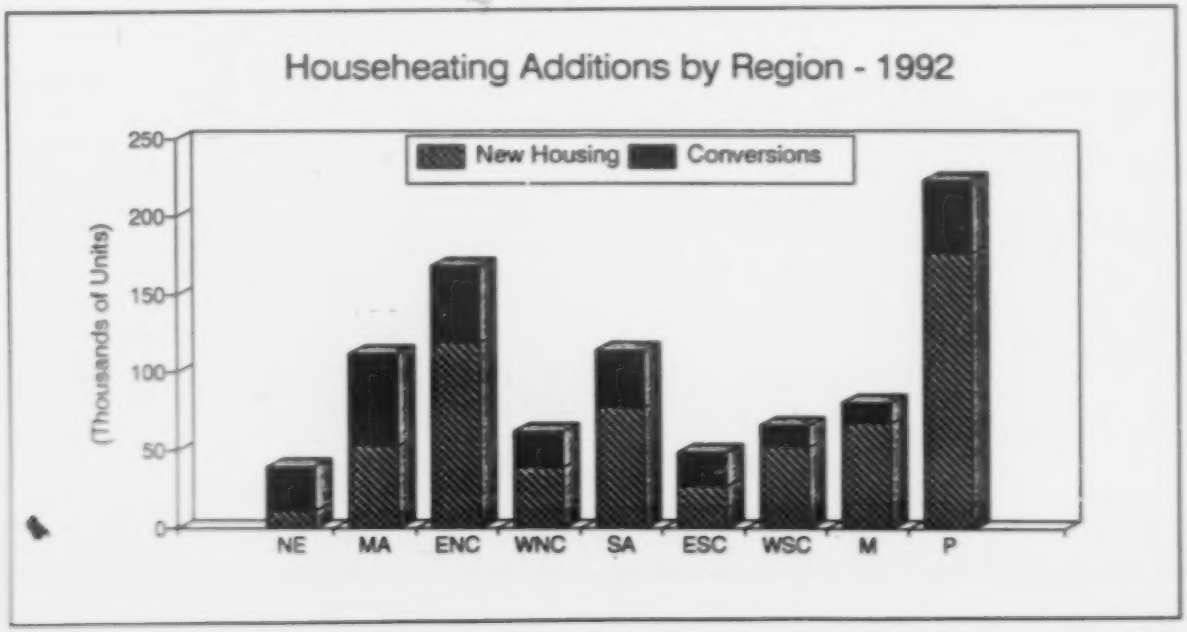


TABLE 5
CUSTOMERS AND UNIT ADDITIONS
(as of December 31, 1992)

Region, Division and State	CUSTOMERS			UNIT ADDITIONS				
	TOTAL	HOUSE HEATING	PERCENT HEATING	TOTAL (100%)	NEW HOUSING NUMBER	(%)	CONVERSIONS NUMBER	(%)
UNITED STATES	52,163,909	45,979,956	88.3%	918,113	620,835	67.6%	297,278	32.4%
NORTHEAST	10,364,720	7,390,310	71.3%	152,263	63,443	41.7%	88,820	58.3%
NEW ENGLAND	1,904,301	1,420,778	74.6%	39,933	10,886	27.3%	29,047	72.7%
Connecticut	438,500	318,790	72.7%	9,181	2,842	31.0%	6,339	69.0%
Maine	13,550	7,683	56.7%	1,014	14	1.4%	1,000	98.6%
Massachusetts	1,157,225	867,919	75.0%	25,937	7,244	27.9%	18,693	72.1%
New Hampshire	69,340	61,839	89.2%	1,466	272	18.6%	1,194	81.4%
Rhode Island	201,824	142,488	70.6%	1,216	165	13.6%	1,051	86.4%
Vermont	23,852	22,039	92.4%	1,119	349	31.2%	770	68.8%
MIDDLE ATLANTIC	8,460,419	5,969,533	70.6%	112,330	52,557	46.8%	59,773	53.2%
New Jersey	2,102,370	1,509,502	71.8%	34,853	19,023	54.6%	15,830	45.4%
New York	3,963,231	2,350,196	59.3%	45,731	14,579	31.9%	31,152	68.1%
Pennsylvania	2,394,818	2,109,835	88.1%	31,746	18,955	59.7%	12,791	40.3%
MIDWEST	15,980,456	15,267,328	95.5%	231,002	157,946	68.4%	73,056	31.6%
EAST NORTH CENTRAL	11,507,207	10,987,203	95.5%	168,598	119,202	70.7%	49,396	29.3%
Illinois	3,393,107	3,091,120	91.1%	48,414	44,280	91.5%	4,134	8.5%
Indiana	1,380,386	1,358,975	97.0%	23,474	11,857	50.5%	11,617	49.5%
Michigan	2,672,546	2,613,750	97.8%	27,429	10,746	39.2%	16,683	60.8%
Ohio	2,871,706	2,822,887	98.3%	36,865	28,216	76.5%	8,649	23.5%
Wisconsin	1,189,462	1,120,473	94.2%	32,416	24,103	74.4%	8,313	25.6%
WEST NORTH CENTRAL	4,473,249	4,280,123	95.7%	62,404	38,744	62.1%	23,660	37.9%
Iowa	747,726	718,565	96.1%	5,680	3,854	67.9%	1,826	32.1%
Kansas	767,325	728,191	94.9%	8,260	2,460	29.8%	5,800	70.2%
Minnesota	1,076,075	1,020,657	94.9%	23,038	15,337	66.6%	7,701	33.4%
Missouri	1,243,126	1,188,279	95.6%	14,749	7,595	51.5%	7,154	48.5%
Nebraska	437,171	428,122	97.9%	5,325	4,616	86.7%	709	13.3%
North Dakota	90,223	88,057	97.6%	1,849	1,627	88.0%	222	12.0%
South Dakota	111,603	108,251	97.0%	3,503	3,255	92.9%	248	7.1%
SOUTH	12,891,345	11,554,875	89.6%	230,409	155,792	67.6%	74,617	32.4%
SOUTH ATLANTIC	4,833,197	3,957,798	81.9%	114,879	77,443	67.4%	37,436	32.6%
Delaware	102,110	77,032	75.4%	3,011	461	15.3%	2,550	84.7%
District of Columbia	136,407	111,717	81.9%	1,969	1,526	77.5%	443	22.5%
Florida	483,888	251,574	52.0%	2,399	1,305	54.4%	1,094	45.6%
Georgia	1,354,951	1,329,749	98.1%	27,433	23,432	85.4%	4,001	14.6%
Maryland	796,095	664,936	83.5%	14,013	12,006	85.7%	2,007	14.3%
North Carolina	577,014	263,637	45.7%	31,006	13,774	44.4%	17,232	55.6%
South Carolina	360,606	275,503	76.4%	6,638	2,790	42.0%	3,848	58.0%
Virginia	665,208	628,249	94.4%	27,628	21,504	77.8%	6,124	22.2%
West Virginia	356,918	355,401	99.6%	782	645	82.5%	137	17.5%
EAST SOUTH CENTRAL	2,455,137	2,385,549	97.2%	49,184	26,479	53.8%	22,705	46.2%
Alabama	709,494	675,438	95.2%	7,778	5,866	75.4%	1,912	24.6%
Kentucky	647,343	626,155	96.7%	6,220	4,644	74.7%	1,576	25.3%
Mississippi	411,993	410,345	99.6%	18,441	5,797	31.4%	12,644	68.6%
Tennessee	686,307	673,611	98.1%	16,745	10,172	60.7%	6,573	39.3%
WEST SOUTH CENTRAL	5,603,011	5,211,527	93.0%	66,346	51,870	78.2%	14,476	21.8%
Arkansas	514,442	431,165	87.7%	10,042	3,187	31.7%	6,855	68.3%
Louisiana	962,418	903,005	93.8%	3,439	1,438	41.8%	2,001	58.2%
Oklahoma	794,916	792,531	99.7%	9,001	5,434	60.4%	3,567	39.6%
Texas	3,331,235	3,064,736	92.0%	43,864	41,811	95.3%	2,053	4.7%
WEST	12,927,388	11,767,443	91.0%	304,439	243,654	80.0%	60,785	20.0%
MOUNTAIN	3,263,565	3,161,681	96.9%	81,457	67,379	82.7%	14,078	17.3%
Arizona	600,325	550,498	91.7%	10,627	8,506	80.0%	2,121	20.0%
Colorado	1,030,630	1,028,568	99.8%	19,407	18,944	97.6%	463	2.4%
Idaho	143,218	142,502	99.5%	9,970	5,472	54.9%	4,498	45.1%
Montana	182,792	174,749	95.6%	1,621	1,059	65.3%	562	34.7%
Nevada	330,945	303,477	91.7%	20,029	17,976	89.7%	2,053	10.3%
New Mexico	388,422	388,422	100.0%	4,960	3,247	65.5%	1,713	34.5%
Utah	474,798	465,302	98.0%	14,375	11,763	81.8%	2,612	18.2%
Wyoming	112,435	108,162	96.2%	468	412	88.0%	56	12.0%
PACIFIC	9,663,822	8,605,762	89.1%	222,982	176,275	79.1%	46,707	20.9%
Alaska	a	a	a	a	a	a	a	a
California	8,741,149	7,753,399	88.7%	168,284	149,866	89.1%	18,418	10.9%
Hawaii	a	a	a	a	a	a	a	a
Oregon	378,640	354,038	93.5%	19,540	9,696	49.6%	9,844	50.4%
Washington	544,033	498,334	91.6%	35,158	16,713	47.5%	18,445	52.5%

a - Insufficient Data

Househeating Conversions

In 1992, 297,278 housing units were converted from another fuel to natural gas (see Tables 5 and 6), an increase of 13.6 percent compared with last year's level of conversions. The respondents were asked to provide a breakdown of conversions by fuel type. Based on these data, 125,478 units, or 42.2 percent, were conversions from fuel oil to natural gas. The majority of fuel oil conversions occurred in the New England and the Middle Atlantic regions where natural gas to oil competition is most fierce. Table 7 details annual conversions to natural gas from other fuels from 1982-1992. The share of conversions from fuel oil has dropped from 87 percent in 1982 as conversions from electricity have grown. Electricity conversions increased in 1992 to 95,738 units, a 40.8 percent increase relative to 1991. In 1982, conversions from electricity to natural gas comprised only 4.8 percent of total conversions. Ten years later, 32.2 percent of all conversions to natural gas were from electricity. Electricity conversions were most prevalent in the South Atlantic, East North Central and Pacific regions. Propane conversions increased to 47,656. Fuel oil and propane accounted for a combined total of 58.2 percent of total conversions, a slight decrease from 63 percent last year. Other (coal, wood, and non-classified) decreased to 28,408.

Conversions from other fuels to natural gas are expected to decrease 2.5 percent in 1992, according to responding companies.

Figure 5 pictorially demonstrates the trend in increasing electricity conversions since 1982. While oil conversions have remained stable since 1983, the conversion of homes from electricity to natural gas has shown significant gains during the same period.

TABLE 6

HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1992 BY TYPE OF FUEL

	ELECTRICITY		OIL		PROPANE		OTHER		TOTAL	
Division	UNITS	%	UNITS	%	UNITS	%	UNITS	%	UNITS	%
United States	95,735	32.2%	125,478	42.2%	47,656	16.0%	28,409	9.6%	297,278	100.0%
New England	3,096	10.7%	20,713	71.3%	1,120	3.9%	4,118	14.2%	29,047	9.8%
Middle Atlantic	4,017	6.7%	51,844	86.7%	1,112	1.9%	2,800	4.7%	59,773	20.1%
East North Central	14,164	28.7%	23,606	47.8%	8,028	16.3%	3,597	7.3%	49,395	16.6%
West North Central	4,092	17.3%	3,985	16.8%	15,119	63.9%	464	2.0%	23,660	8.0%
South Atlantic	21,075	56.3%	9,602	25.6%	4,237	11.3%	2,522	6.7%	37,436	12.6%
East South Central	7,556	33.3%	538	2.4%	2,791	12.3%	11,820	52.1%	22,705	7.6%
West South Central	7,154	49.4%	7	0.0%	7,178	49.6%	137	0.9%	14,476	4.9%
Mountain	6,340	45.0%	1,932	13.7%	4,724	33.6%	1,083	7.7%	14,079	4.7%
Pacific	28,241	60.5%	13,251	28.4%	3,347	7.2%	1,868	4.0%	46,707	15.7%

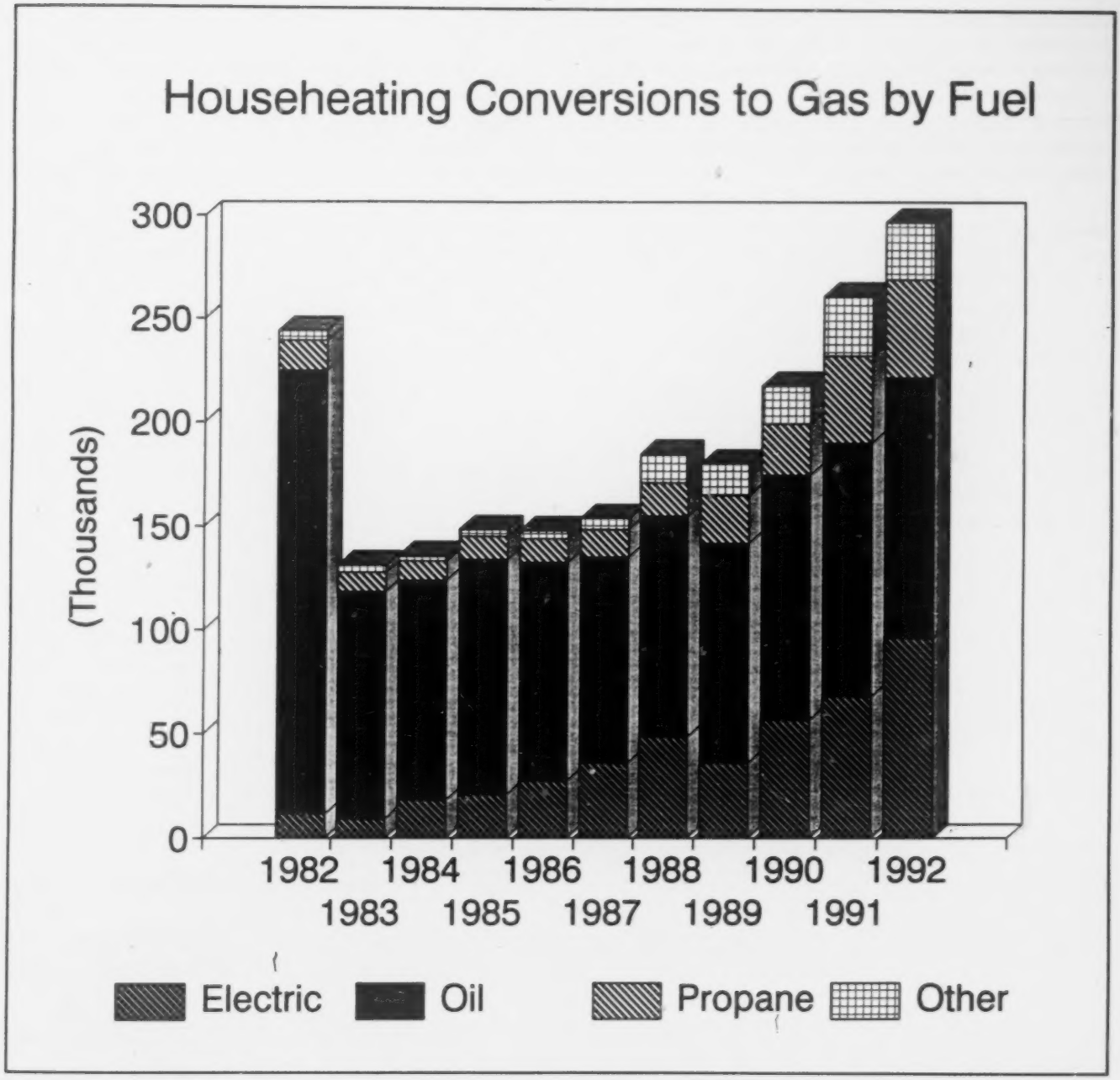
TABLE 7

HOUSEHEATING CONVERSIONS TO NATURAL GAS BY TYPE OF FUEL (1982 - 1992)

	ELECTRICITY		OIL		PROPANE		OTHER		TOTAL	
	UNITS	%	UNITS	%	UNITS	%	UNITS	%	UNITS	%
1982	11,889	4.8%	213,330	87.0%	14,889	6.1%	5,076	2.1%	245,184	100.0%
1983	9,060	6.9%	109,883	83.2%	9,391	7.1%	3,795	2.9%	132,129	100.0%
1984	18,570	13.6%	106,034	77.5%	9,308	6.8%	2,985	2.2%	136,897	100.0%
1985	20,808	13.9%	113,475	76.0%	11,615	7.8%	3,381	2.3%	149,279	100.0%
1986	27,811	18.7%	104,894	70.6%	11,822	8.0%	3,984	2.7%	148,511	100.0%
1987	36,153	23.4%	99,184	64.2%	13,608	8.8%	5,485	3.6%	154,430	100.0%
1988	48,669	26.3%	106,480	57.5%	15,978	8.6%	14,057	7.6%	185,184	100.0%
1989	36,446	20.1%	105,854	58.4%	23,471	12.9%	15,617	8.6%	181,388	100.0%
1990	56,973	26.0%	118,216	54.0%	25,206	11.5%	18,547	8.5%	218,942	100.0%
1991	68,006	26.0%	122,481	46.8%	42,236	16.1%	29,004	11.1%	261,727	100.0%
1992	95,735	32.2%	125,478	42.2%	47,656	16.0%	28,409	9.6%	297,278	100.0%

Note: Other includes coal, wood and non-classified conversions.

Figure 5


Househeating Conversions to Gas by Fuel
(Thousands)
300
250
200
150
100
50
0
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
Electric
Oil
Propane
Other

IV. Residential Natural Gas Consumption

Natural Gas Consumption Per Unit

Respondents to the survey estimated the average annual natural gas consumption for both single-family and multi-family dwellings. Utilities representing 85 percent of all natural gas househeating customers responded to this portion in the survey. These responses were then used to develop the U.S. and regional average estimates on natural gas consumption per unit. Both categories were weighted by the number of residential natural gas customers for each responding utility in each state.

Due to changes in the reporting methods of some utilities and the difference in survey participation from year to year (as well as annual changes in heating degree day totals), consumption data from year to year are not always comparable. With this caveat in mind, a review of 1992 combined average consumption data (U.S. average weighted by customer and dwelling type) indicated that total per unit natural gas consumption was 87.3 Mcf for all units, while househeating was 59.9 Mcf and base load consumption was 27.4 Mcf. This represents a 1.8 percent decrease compared with 1991, which is consistent with the fact that winter months' heating degree days were down nationally in 1992 (see Table 9). Nationally, househeating accounted for 68.6 percent of total unit natural gas consumption and base load uses accounted for 31.4 percent. Househeating consumption as a percent of total consumption, for all dwelling types, ranged from 74.4 percent in the Midwest to 53.8 percent in the West. Base load consumption is that part of total consumption, which is not temperature sensitive and includes gas consumed by clothes dryers, ranges and water heaters.

In single-family dwellings, natural gas consumption for househeating was 69.0 Mcf, while base load consumption was 29.3 Mcf. By comparison, the average multi-family dwelling unit consumed 37.9 Mcf and 22.8 Mcf, respectively, for househeating and base load use. This lower level of consumption is due to comparatively smaller units than single-family homes, as well as the natural insulation of multi-family dwellings.

Table 8 includes weather data for each region in the form of annual heating degree days for calendar year 1992 and the 30-year normal heating degree days weighted by natural gas househeating customers as reported by the survey respondents.

Table 8

1992 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a] BY REGION (Mcf)

Region	Single Family	Multi-Family	Combined[b] Average	Heating Degree Days[c] 1992	Heating Degree Days[c] 30-Year
Northeast					
Heating	97.2	59.7	86.3	5,466	5,511
Baseload	33.5	27.2	31.6		
Total	130.7	86.9	117.9		
Midwest					
Heating	97.6	28.5	86.2	5,982	6,328
Baseload	31.2	25.5	29.6		
Total	128.8	84.0	115.8		
South					
Heating	52.3	36.5	47.7	2,722	3,004
Baseload	26.9	22.5	25.6		
Total	79.2	59.0	73.3		
West					
Heating	34.3	13.8	28.3	2,534	2,758
Baseload	26.3	19.3	24.2		
Total	60.6	33.1	52.6		
U.S. Average					
Heating	69.0	37.9	59.9	4,076	4,338
Baseload	29.3	22.8	27.4		
Total	98.3	60.7	87.3		

[a]Results for 1992 are based on responses from 171 different markets.

[b]Weighted by customer and dwelling type.

[c]Calendar year heating degree days are weighted by gas househeating customers.
Source: National Oceanic and Atmospheric Administration

Heating Bills

The annual natural gas househeating bill for a single-family home increased in 1992 as shown in Table 9. This is due to slightly higher prices in some regions in 1992 compared with 1991. In some instances where heating bills increased, it was as a result of the impact on gas rates of higher state taxes. Changes ranged from a 0.6 percent decline in the Mountain division to a 13.1 percent increase in the West North Central. Nationally, the average natural gas househeating bill increased from $395 to $406 or 2.8 percent. This data is confined to average space heating costs and therefore, does not include the cost of base load uses such as cooking, clothes drying or water heating.

Table 9

1991 AND 1992 GAS HOUSEHEATING BILLS AND WINTER HEATING DEGREE DAYS BY DIVISION

Division	1991 Gas Heating Bills	1992 Gas Heating Bills	Percent Change	1991 Winter Months Heating Degree Days	1992 Winter Months Heating Degree Days	Percent Change
United States	$395.02	$405.91	2.8%	3,565	3,498	-1.9%
New England	$750.76	$777.04	3.5%	4,486	4,753	6.0%
Middle Atlantic	$653.89	$671.77	2.7%	4,161	4,387	5.4%
East North Central	$513.12	$519.01	1.1%	4,812	4,602	-4.4%
West North Central	$402.26	$455.12	13.1%	4,988	4,648	-6.8%
South Atlantic	$420.80	$440.73	4.7%	2,666	2,798	5.0%
East South Central	$314.32	$321.85	2.4%	2,749	2,762	0.5%
West South Central	$278.63	$288.43	3.5%	1,970	1,861	-5.5%
Mountain	$282.79	$281.08	-0.6%	4,145	4,159	0.3%
Pacific	$162.68	$169.64	4.3%	2,063	1,958	-5.1%

Note: Both heating bills and degree days are weighted by gas househeating customers.
Degree days are for the months of January, February, March, November and December for each year, weighted by gas househeating customers. Source: National Oceanic and Atmospheric Administration.

Appendix 1
Customers and Consumption

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1992	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1992	30-YEAR NORMAL
NEW ENGLAND								
CONNECTICUT								
	CONNECTICUT NATURAL GAS CORP.	129,154	101,982	N/A	N/A	43.0	6,522	6,130
	SOUTHERN CONNECTICUT GAS CO.	139,249	102,771	84.73	29.66	33.0	5,528	5,501
	YANKEE GAS SERVICES CO.	157,383	104,836	96.50	36.10	17.4	6,219	6,200
	TOTAL CONNECTICUT	425,786	309,589					
MAINE								
	NORTHERN UTILITIES	13,550	7,689	81.60	28.80	8.0	8,112	7,993
	TOTAL MAINE	13,550	7,689					
MASSACHUSETTS								
	FALL RIVER GAS COMPANY	40,943	37,174	75.00	30.00	90.0	6,156	5,965
	COLONIAL GAS CO. - LOWELL	113,891	105,878	90.00	50.00	51.3	6,847	6,341
	ESSEX COUNTY GAS CO.	34,596	27,833	85.50	31.50	49.0	6,943	6,752
	BAY STATE GAS COMPANY	216,603	178,185	95.20	33.60	45.0	7,167	6,869
	COMMONWEALTH GAS CO.	207,163	176,659	124.00	31.00	40.0	7,128	6,500
	BERKSHIRE GAS COMPANY	27,435	20,789	120.00	30.00	38.0	7,210	7,341
	TOTAL MASSACHUSETTS	640,631	546,518					
NEW HAMPSHIRE								
	ENERGYNORTH, Inc.	55,612	49,596	103.40	23.40	26.7	7,527	7,514
	NORTHERN UTILITIES	13,737	12,230	77.80	26.40	16.0	7,398	7,169
	TOTAL NEW HAMPSHIRE	69,349	61,826					
RHODE ISLAND								
	VALLEY GAS CO.	49,268	39,425	75.00	20.00	49.0	6,148	6,386
	PROVIDENCE GAS CO.	143,492	96,743	76.22	46.35	N/A	5,502	5,842
	TOTAL RHODE ISLAND	192,760	136,168					
VERMONT								
	VERMONT GAS SYSTEMS	21,298	19,672	69.65	29.85	N/A	7,785	7,868
	TOTAL VERMONT	21,298	19,672					
	TOTAL NEW ENGLAND	1,363,374	1,081,462					
MIDDLE ATLANTIC								
NEW JERSEY								
	SOUTH JERSEY GAS CO.	212,894	187,714	73.78	28.80	53.7	4,916	4,409
	NEW JERSEY NATURAL GAS COMPANY	300,447	271,492	74.02	36.37	53.0	5,059	5,311
	ELIZABETHTOWN GAS CO.	214,029	150,977	N/A	N/A	61.0	4,936	4,978
	PUBLIC SERVICE ELECTRIC & GAS	1,375,000	900,000	100.97	20.40	65.0	4,733	4,931
	TOTAL NEW JERSEY	2,102,370	1,510,183					
NEW YORK								
	LONG ISLAND LIGHTING CO.	397,023	227,834	115.00	45.00	25.0	2,563	2,777
	BROOKLYN UNION GAS CO.	1,115,857	710,090	98.00	42.00	52.5	4,659	4,851
	CENTRAL HUDSON GAS & ELECTRIC	80,909	38,499	60.00	50.00	17.5	6,498	6,332
	ROCHESTER GAS & ELECTRIC	247,181	228,096	80.00	48.00	N/A	7,037	6,777
	ST. LAWRENCE GAS CO.	11,681	10,916	136.00	25.00	78.0	8,510	8,278
	CONSOLIDATED EDISON CO.	930,623	200,004	N/A	N/A	52.5	4,574	4,868
	ORANGE & ROCKLAND UTILITIES	97,398	92,561	101.00	45.00	57.0	5,771	5,947
	NATIONAL FUEL GAS DIST.	494,249	468,804	127.90	37.70	91.8	6,822	6,794
	TOTAL NEW YORK	3,334,921	1,976,804					
PENNSYLVANIA								
	PIKE COUNTY LIGHT & POWER	943	889	76.00	55.00	28.0	5,771	5,947
	PHILADELPHIA GAS WORKS	504,098	416,380	94.00	43.00	62.0	4,748	4,600
	PEOPLES NATURAL GAS	314,011	308,089	105.00	35.00	98.1	5,667	5,923
	COLUMBIA GAS OF PA.	324,836	312,746	97.90	31.00	N/A	5,635	5,695
	NORTH PENN GAS CO.	30,485	30,280	91.10	31.20	N/A	6,933	7,224
	PENNSYLVANIA GAS & WATER	123,579	107,300	151.00	30.00	40.0	6,135	6,330
	PHILADELPHIA ELECTRIC CO.	529,436	269,577	89.90	31.70	36.9	4,963	4,995
	NATIONAL FUEL GAS DIST.	201,156	199,302	130.30	35.10	82.0	6,128	6,557
	UGI CORPORATION	208,899	150,273	91.10	20.90	14.5	5,763	5,500
	TOTAL PENNSYLVANIA	2,037,443	1,794,836					
	TOTAL MIDDLE ATLANTIC	7,474,734	5,281,823					
	TOTAL NORTHEAST	8,838,108	6,363,285					

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1992	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1992	30-YEAR NORMAL
EAST NORTH CENTRAL								
ILLINOIS								
	PEOPLES GAS LIGHT & COKE	800,093	594,659	142.00	41.00	94.0	6,320	6,455
	NORTH SHORE GAS CO.	117,073	113,208	137.00	47.00	93.0	6,320	6,455
	ILLINOIS GAS COMPANY	8,908	8,868	93.16	56.07	88.0	3,946	5,037
	IOWA-ILLINOIS GAS & ELECTRIC	59,065	57,066	77.80	35.40	78.0	5,963	6,474
	CENTRAL ILLINOIS LIGHT CO.	146,015	143,095	95.60	24.00	N/A	5,032	5,767
	UNITED CITIES GAS CO.	19,696	19,105	N/A	N/A	79.0	4,325	4,889
	ILLINOIS POWER CO.	354,548	347,090	N/A	N/A	74.0	5,047	5,697
	NORTHERN ILLINOIS GAS CO.	1,601,303	1,547,967	114.00	32.00	87.0	5,714	6,177
	TOTAL ILLINOIS	3,106,701	2,831,058					
INDIANA								
	LAWRENCEBURG GAS CO.	4,405	4,189	102.50	41.00	76.0	4,915	5,247
	INDIANA NATURAL GAS CORP.	4,915	4,905	111.00	N/A	N/A	5,126	N/A
	INDIANA GAS COMPANY	382,562	377,852	108.00	24.00	N/A	5,142	5,615
	MIDWEST NATURAL GAS CORP	10,789	10,510	N/A	N/A	100.0	5,266	N/A
	NORTHERN INDIANA FUEL & LIGHT	24,691	24,103	109.20	34.30	N/A	5,951	6,320
	NORTHERN INDIANA PUBLIC SERV.	563,876	538,257	120.00	40.00	74.0	6,089	6,222
	CITIZENS GAS & COKE UTILITY	223,550	217,655	90.00	30.00	75.0	5,139	5,577
	TOTAL INDIANA	1,214,788	1,177,471					
MICHIGAN								
	MICHIGAN CONSOLIDATED GAS	1,030,361	1,003,238	110.00	45.00	84.0	6,607	6,859
	CONSUMERS POWER CO.	1,287,569	1,261,569	92.00	27.00	99.0	N/A	N/A
	BATTLE CREEK GAS COMPANY	31,181	30,339	125.00	41.00	N/A	6,245	6,203
	MICHIGAN GAS CO.	78,537	77,461	132.80	39.90	77.0	7,079	7,200
	TOTAL MICHIGAN	2,427,648	2,372,607					
OHIO								
	DAYTON POWER & LIGHT	259,038	256,129	81.60	21.60	N/A	5,543	5,765
	EAST OHIO GAS CO.	987,705	979,396	85.00	35.00	N/A	6,268	6,289
	CINCINNATI GAS & ELECTRIC	305,140	282,883	102.50	41.00	56.0	4,915	5,247
	COLUMBIA GAS OF OHIO	1,118,505	1,109,702	93.40	31.50	N/A	5,699	5,831
	WEST OHIO GAS CO.	53,493	52,807	91.30	20.70	88.1	5,590	5,943
	TOTAL OHIO	2,723,881	2,680,917					
WISCONSIN								
	WISCONSIN NATURAL GAS CO.	256,023	245,125	144.90	25.00	71.0	7,307	7,402
	MADISON GAS & ELECTRIC	81,916	76,990	76.60	28.40	85.6	7,050	7,642
	WISCONSIN FUEL & LIGHT CO.	40,069	38,807	84.00	27.40	78.4	7,934	7,920
	WISCONSIN SOUTHERN GAS CO.	43,114	42,145	82.20	29.10	73.0	6,547	6,856
	WISCONSIN GAS CO.	432,390	395,688	85.00	35.20	67.0	6,683	7,236
	TOTAL WISCONSIN	853,512	798,755					
	TOTAL EAST NORTH CENTRAL	10,326,530	9,860,808					
WEST NORTH CENTRAL								
IOWA								
	IOWA PUBLIC SERVICE CO.	249,711	241,446	73.60	27.50	N/A	6,434	7,101
	CEDAR FALLS UTILITIES	10,237	9,358	106.00	N/A	59.0	6,400	6,342
	UNITED CITIES GAS CO.	4,160	4,118	N/A	N/A	91.0	5,033	5,654
	PEOPLES NATURAL GAS (UTILICORP)	113,319	105,386	120.60	33.00	93.0	6,381	6,996
	IOWA-ILLINOIS GAS & ELECTRIC	158,806	154,851	72.90	32.90	87.0	5,993	6,459
	TOTAL IOWA	536,233	515,159					
KANSAS								
	PEOPLES NATURAL GAS (UTILICORP)	32,895	30,592	80.00	30.00	93.0	4,876	5,315
	KANSAS PUBLIC SERVICE	22,822	22,822	N/A	N/A	88.0	4,403	4,836
	UNITED CITIES GAS CO.	65,162	61,903			95.0	3,983	4,507
	ARKANSAS LOUISIANA GAS CO.	20,561	18,176	49.29	29.71	84.0	4,133	4,787
	MIDWEST ENERGY, INC.	9,784	9,352	93.50	30.82	90.0	5,143	5,300
	TOTAL KANSAS	151,224	142,845					
MINNESOTA								
	IOWA PUBLIC SERVICE CO.	73,495	73,115	69.80	30.60	N/A	6,434	7,101
	NORTHERN STATES POWER CO.	330,532	301,948	112.52	15.37	97.0	7,329	7,820
	NORTHERN MINNESOTA UTILITIES	24,268	N/A	117.30	25.90	71.8	9,018	9,577
	CITY OF DULUTH	22,920	16,315	140.00	45.00	N/A	9,479	9,797
	PEOPLES NATURAL GAS (UTILICORP)	101,277	94,188	87.00	32.00	95.0	8,039	8,142
	TOTAL MINNESOTA	552,492	485,566					

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1992	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1992	30-YEAR NORMAL
MISSOURI								
	UNITED CITIES GAS CO.	12,450	12,326	N/A	N/A	78.0	5,033	5,654
	ASSOCIATED NATURAL GAS CO.	39,862	32,459	60.00	22.00	57.0	4,150	4,209
	ST. JOSEPH LIGHT & POWER CO.	5,370	5,312	N/A	N/A	99.0	4,918	5,408
	CITY OF SPRINGFIELD	58,761	58,761	65.00	27.00	87.0	4,111	4,660
	MISSOURI PUBLIC SERVICE	36,440	36,371	65.00	27.00	N/A	4,799	5,312
	LACLEDE GAS CO.	565,691	552,594	N/A	N/A	77.0	4,143	4,758
	TOTAL MISSOURI	718,574	697,823					
NEBRASKA								
	PEOPLES NATURAL GAS (UTILICORP)	33,579	31,228	80.00	27.00	93.0	5,606	6,284
	METROPOLITAN UTILITIES DIST.	149,016	138,570	76.00	29.00	94.3	5,658	6,519
	IOWA PUBLIC SERVICE CO.	3,695	3,469	63.00	27.90	N/A	6,434	7,101
	HASTINGS UTILITIES	8,774	N/A	91.68	N/A	N/A	5,296	5,816
	NORTHWESTERN PUBLIC SERVICE	33,843	33,663	79.00	39.00	N/A	5,175	6,560
	TOTAL NEBRASKA	220,907	206,930					
NORTH DAKOTA								
	MONTANA-DAKOTA UTILITIES CO.	65,903	64,321	115.90	3.40	97.6	8,162	9,075
	TOTAL NORTH DAKOTA	65,903	64,321					
SOUTH DAKOTA								
	MONTANA-DAKOTA UTILITIES CO.	29,314	27,848	91.80	3.10	95.0	6,614	6,749
	NORTHWESTERN PUBLIC SERVICE	28,677	27,601	89.00	30.00	N/A	7,086	7,923
	IOWA PUBLIC SERVICE CO.	7,888	7,470	69.60	25.50	N/A	6,434	7,101
	TOTAL SOUTH DAKOTA	65,879	62,919					
	TOTAL WEST NORTH CENTRAL	2,311,212	2,175,563					
	TOTAL MIDWEST	12,637,742	12,036,371					
SOUTH ATLANTIC								
DELAWARE								
	DELMARVA POWER & LIGHT CO.	89,593	65,880	105.20	27.20	38.5	4,841	4,917
	CHESAPEAKE UTILITIES CORP.	12,517	10,406	99.00	28.00	N/A	4,645	4,275
	TOTAL DELAWARE	102,110	76,286					
DISTRICT OF COLUMBIA								
	WASHINGTON GAS	133,720	109,519	78.00	36.00	89.0	4,150	3,857
	TOTAL WASHINGTON	133,720	109,519					
FLORIDA								
	PEOPLES GAS SYSTEM, INC.	166,510	86,573	19.40	14.70	9.9	516	660
	CHESAPEAKE UTILITIES CORP.	7,000	N/A	18.00	38.40	8.2	500	500
	TOTAL FLORIDA	173,510	86,573					
GEORGIA								
	ATLANTA GAS LIGHT COMPANY	1,123,717	1,108,062	50.10	29.80	88.0	2,552	3,038
	UNITED CITIES GAS CO.	63,898	57,508	N/A	N/A	91.0	2,399	2,688
	TOTAL GEORGIA	1,187,615	1,165,570					
MARYLAND								
	WASHINGTON GAS	261,275	256,336	77.00	30.00	97.0	4,150	3,857
	COLUMBIA GAS OF MD	27,260	24,491	91.50	25.40	N/A	5,130	5,051
	BALTIMORE GAS & ELECTRIC	486,863	366,822	76.90	40.40	38.4	4,975	4,901
	TOTAL MARYLAND	775,398	647,649					
NORTH CAROLINA								
	CITY OF WILSON	6,908	6,908	68.65	3.74	27.1	N/A	N/A
	PIEDMONT NATURAL GAS CO.	236,983	64,186	7.47	21.10	45.0	3,444	3,595
	NORTH CAROLINA NATURAL GAS	79,393	76,715	55.00	25.00	N/A	N/A	3,155
	TOTAL NORTH CAROLINA	323,484	147,809					
SOUTH CAROLINA								
	SOUTH CAROLINA ELECTRIC & GAS	209,500	184,300	N/A	N/A	N/A	2,196	2,367
	PIEDMONT NATURAL GAS CO.	67,910	27,039	7.48	13.87	41.0	3,373	3,367
	UNITED CITIES GAS CO.	4,092	3,805	N/A	N/A	54.0	3,283	3,239
	TOTAL SOUTH CAROLINA	281,502	215,144					
VIRGINIA								
	WASHINGTON GAS	229,173	221,567	75.00	23.00	96.0	4,150	3,857
	DEPT. OF PUBLIC UTILITIES	69,256	83,659	N/A	N/A	N/A	3,825	3,960
	ROANOKE GAS COMPANY	39,142	35,500	98.00	10.50	N/A	4,211	4,315
	CITY OF DANVILLE	14,774	13,300	89.35	21.10	76.1	4,005	N/A
	COMMONWEALTH GAS SERVICES	127,493	123,018	74.00	23.70	N/A	3,975	3,925
	VIRGINIA NATURAL GAS	102,043	129,634	51.10	19.98	26.3	3,290	3,432
	CITY OF CHARLOTTESVILLE	10,893	N/A	85.00	21.00	N/A	4,805	4,567

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1992	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1992	30-YEAR NORMAL
	UNITED CITIES GAS CO.	12,434	11,314	N/A	N/A	38.0	4,234	4,335
	TOTAL VIRGINIA	665,208	617,992					
WEST VIRGINIA								
	MOUNTAINEER GAS CO.	182,616	N/A	N/A	N/A	N/A	4,282	4,697
	TOTAL WEST VIRGINIA	182,616	N/A					
	TOTAL SOUTH ATLANTIC	3,825,163	3,066,542					
EAST SOUTH CENTRAL								
ALABAMA								
	HUNTSVILLE UTILITIES GAS DEPT.	28,039	28,039	67.52	N/A	N/A	3,130	3,300
	MOBILE GAS SERVICE CORP	85,171	73,745	60.30	30.00	62.0	1,562	1,620
	DECATUR UTILITIES	7,096	6,690	51.00	11.00	29.0	2,913	3,100
	ALABAMA GAS CORP.	410,146	396,028	51.10	25.80	70.0	2,507	2,650
	CITY OF FLORENCE	10,993	10,933	N/A	N/A	34.0	2,469	N/A
	TOTAL ALABAMA	541,445	515,435					
KENTUCKY								
	UNION LIGHT, HEAT & POWER	62,850	60,074	103.00	41.20	58.0	4,915	5,247
	LOUISVILLE GAS & ELECTRIC	233,421	228,692	70.51	28.54	N/A	3,907	4,514
	COLUMBIA GAS OF KY	113,852	113,224	80.60	24.50	N/A	4,432	4,569
	TOTAL KENTUCKY	410,123	401,990					
MISSISSIPPI								
	MISSISSIPPI VALLEY GAS CO.	213,674	213,674	40.90	29.80	79.0	2,580	2,761
	ENTEX, INC.	114,204	112,875	40.00	27.00	89.5	2,129	2,218
	TOTAL MISSISSIPPI	327,878	326,549					
TENNESSEE								
	KNOXVILLE UTILITIES BOARD	36,691	N/A	N/A	N/A	N/A	3,663	3,658
	CHATTANOOGA GAS COMPANY	31,706	30,121	N/A	N/A	N/A	3,360	3,583
	MIDDLE TENNESSEE NATURAL GAS	26,178	25,314	57.00	13.00	70.0	3,484	3,756
	NASHVILLE GAS CO.	82,014	82,014	85.00	30.00	30.0	3,561	3,756
	MEMPHIS LIGHT, GAS & WATER	251,809	251,809	87.00	N/A	80.0	2,826	3,227
	UNITED CITIES GAS CO.	66,785	60,774	N/A	N/A	50.0	3,796	3,923
	TOTAL TENNESSEE	495,183	450,032					
	TOTAL EAST SOUTH CENTRAL	1,774,629	1,694,006					
WEST SOUTH CENTRAL								
ARKANSAS								
	ARKANSAS LOUISIANA GAS CO.	372,737	329,500	48.04	28.96	57.0	2,764	3,152
	ARKANSAS WESTERN GAS CO.	79,961	68,766	55.00	37.00	45.0	4,104	N/A
	ASSOCIATED NATURAL GAS CO.	18,156	14,784	56.00	21.00	57.0	3,299	3,432
	TOTAL ARKANSAS	470,854	413,050					
LOUISIANA								
	ARKANSAS LOUISIANA GAS CO.	123,909	109,536	42.43	25.57	64.0	2,029	2,269
	ENTEX,DIVISION OF ARKLA, INC.	118,109	106,299	56.00	34.00	90.0	1,266	1,471
	LOUISIANA GAS SERVICE CO.	226,377	223,691	55.30	25.90	N/A	1,612	1,452
	TRANS LOUISIANA GAS COMPANY	66,400	N/A	28.50	30.80	93.0	674	676
	TOTAL LOUISIANA	534,795	439,526					
OKLAHOMA								
	OKLAHOMA NATURAL GAS CO.	608,031	617,871	63.60	31.00	89.0	3,130	3,410
	ARKANSAS LOUISIANA GAS CO.	103,237	91,262	43.05	25.95	54.0	3,739	3,735
	TOTAL OKLAHOMA	711,268	709,133					
TEXAS								
	CITY PUBLIC SERVICE	269,905	245,614	26.81	25.14	60.0	1,297	1,621
	ENTEX, DIVISION OF ARKLA, INC	1,039,009	983,416	29.00	27.00	70.0	1,274	1,466
	ARKANSAS LOUISIANA GAS CO.	41,597	36,772	39.31	23.69	60.0	2,029	2,269
	LONE STAR GAS CO.	1,140,013	1,026,012	48.00	26.00	46.3	1,980	2,407
	TOTAL TEXAS	2,490,524	2,291,814					
	TOTAL WEST SOUTH CENTRAL	4,207,441	3,853,523					
	TOTAL SOUTH	9,807,233	8,614,071					

APPENDIX 1 -- CUSTOMERS AND CONSUMPTION

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1992	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1992	30-YEAR NORMAL
MOUNTAIN								
ARIZONA								
	SOUTHWEST GAS CORP.	220,484	189,616	29.00	22.00	80.0	1,495	1,526
	CITIZENS UTILITIES CO.	5,665	5,665	36.60	28.80	64.0	2,305	2,667
	SOUTHWEST GAS CORP.	286,864	275,405	25.60	N/A	35.0	1,700	N/A
	TOTAL ARIZONA	513,013	470,686					
COLORADO								
	CITY OF COLORADO SPRINGS	109,029	109,029	61.90	31.50	82.0	5,826	6,308
	PUBLIC SERVICE CO OF COLORADO	785,539	785,539	64.00	29.30	87.2	5,502	6,020
	PEOPLES NATURAL GAS (UTILICORP)	25,620	23,827	100.00	40.00	93.0	5,809	6,346
	TOTAL COLORADO	920,188	918,395					
IDAHO								
	WASHINGTON WATER POWER	24,595	23,900	57.00	16.00	46.0	6,134	6,882
	INTERMOUNTAIN GAS CO.	118,623	118,623	56.50	28.20	36.0	5,545	6,284
	TOTAL IDAHO	143,218	142,523					
MONTANA								
	MONTANA-DAKOTA UTILITIES CO.	56,460	53,976	94.80	2.90	95.6	6,106	7,212
	GREAT FALLS GAS CO.	21,344	N/A	N/A	N/A	N/A	7,383	7,565
	TOTAL MONTANA	77,804	53,976					
NEVADA								
	SOUTHWEST GAS CORP.	195,508	170,837	31.10	23.90	47.0	2,050	2,100
	SIERRA PACIFIC POWER COMPANY	74,450	72,217	43.00	27.00	72.0	4,613	5,442
	TOTAL NEVADA	269,958	243,054					
NEW MEXICO								
	GAS COMPANY OF NEW MEXICO	329,385	329,385	82.00	N/A	87.0	4,363	4,477
	TOTAL NEW MEXICO	329,385	329,385					
UTAH								
	MOUNTAIN FUEL SUPPLY CO.	474,798	465,302	69.51	34.92	87.2	5,235	5,803
	TOTAL UTAH	474,798	465,302					
WYOMING								
	MONTANA-DAKOTA UTILITIES CO.	11,022	9,986	103.60	3.10	90.6	6,782	7,841
	CODY GAS	4,007	4,007	136.00	3.20	90.0	5,453	7,431
	MOUNTAIN FUEL SUPPLY CO.	17,792	17,436	81.02	31.44	87.5	8,516	8,598
	TOTAL WYOMING	32,821	31,429					
	TOTAL MOUNTAIN	2,761,185	2,654,750					
PACIFIC								
CALIFORNIA								
	SAN DIEGO GAS & ELECTRIC	658,472	651,912	17.00	22.00	62.0	866	1,079
	CITY OF LONG BEACH GAS DEPT.	140,710	133,859	15.60	14.00	79.0	994	1,147
	SOUTHERN CALIFORNIA GAS CO.	4,445,500	4,356,590	20.66	28.78	96.4	1,258	1,505
	SOUTHWEST GAS CORP.	83,497	83,450	37.00	22.00	78.0	2,942	N/A
	PACIFIC GAS AND ELECTRIC	3,280,000	2,408,000	30.50	20.30	77.0	2,705	2,416
	TOTAL CALIFORNIA	8,608,179	7,633,811					
OREGON								
	NORTHWEST NATURAL GAS CO.	299,039	285,384	68.00	24.00	37.0	3,662	4,354
	WASHINGTON WATER POWER CO.	58,859	57,700	44.00	17.00	54.0	3,653	4,798
	CASCADE NATURAL GAS CORP	20,742	10,990	60.00	21.00	70.0	4,622	5,675
	TOTAL OREGON	378,640	354,074					
WASHINGTON								
	WASHINGTON NATURAL GAS CO.	378,581	373,901	66.90	19.20	42.0	4,093	4,780
	CASCADE NATURAL GAS CORP.	81,234	43,050	60.00	21.00	70.0	4,622	5,675
	WASHINGTON WATER POWER	72,041	69,900	65.00	20.00	49.0	6,134	6,882
	NORTHWEST NATURAL GAS CO.	12,177	11,578	71.00	24.00	13.0	3,662	4,354
	TOTAL WASHINGTON	544,033	498,429					
	TOTAL PACIFIC	9,530,852	8,486,314					
	TOTAL WEST	12,292,037	11,141,064					
	TOTAL US	43,575,120	38,154,791					

Appendix 2
Competitive Fuel Prices

APPENDIX 2 -- COMPETITIVE FUEL PRICES ($/MMBTU)

AS OF DECEMBER 31, 1992

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
NEW ENGLAND							
CONNECTICUT							
	CONNECTICUT NATURAL GAS CORP.	HARTFORD	$8.20	$22.29	$12.65	$7.64	N/A
	SOUTHERN CONNECTICUT GAS CO.	BRIDGEPORT	$9.38	$28.72	$10.95	$7.11	$794.77
	YANKEE GAS SERVICES CO.	WATERBURY	$8.99	$24.03	$13.69	$6.49	$867.82
MAINE							
	NORTHERN UTILITIES	PORTLAND	$6.71	$38.10	N/A	$5.55	$547.54
MASSACHUSETTS							
	FALL RIVER GAS COMPANY	FALL RIVER	$7.26	$32.24	$12.04	$6.13	$544.50
	COLONIAL GAS CO. - LOWELL	LOWELL	$8.37	$26.38	$14.23	$5.41	$753.37
	ESSEX COUNTY GAS CO.	HAVERHILL	$8.38	N/A	$11.93	$6.35	$716.49
	BAY STATE GAS COMPANY	BROCKTON	$7.22	$23.45	N/A	$7.28	$687.34
	COMMONWEALTH GAS CO.	WORCESTER	$8.46	N/A	N/A	N/A	$1,049.04
	BERKSHIRE GAS COMPANY	PITTSFIELD	$9.30	$35.17	$10.95	$6.13	$1,116.00
NEW HAMPSHIRE							
	ENERGYNORTH, Inc.	MANCHESTER	$8.01	$31.68	$12.11	$6.03	$828.65
	NORTHERN UTILITIES	PORTSMOUTH	$6.85	$32.24	$12.15	$5.98	$532.93
RHODE ISLAND							
	VALLEY GAS CO	PAWTUCKET	$6.90	$32.24	$13.58	$7.14	$517.50
	PROVIDENCE GAS CO.	PROVIDENCE	$7.79	$26.38	$14.01	$7.21	$593.75
VERMONT							
	VERMONT GAS SYSTEMS	BURLINGTON	$5.71	$23.15	$12.37	$6.56	$397.70
MIDDLE ATLANTIC							
NEW JERSEY							
	SOUTH JERSEY GAS CO.	ATLANTIC CITY	$6.14	$27.55	$14.56	$6.92	$453.01
	NEW JERSEY NATURAL GAS COMPANY	ASBURY PARK	$7.69	$32.82	$13.36	$5.77	$569.44
	ELIZABETHTOWN GAS CO.	ELIZABETH	$7.34	$31.34	$12.04	$7.57	N/A
	PUBLIC SERVICE ELECTRIC & GAS	NEWARK	$6.60	$29.31	$15.33	$7.35	$666.39
NEW YORK							
	LONG ISLAND LIGHTING CO.	LONG ISLAND	$7.26	$43.96	$13.69	$8.44	$834.90
	BROOKLYN UNION GAS CO.	NEW YORK CITY	$7.89	$21.04	N/A	$9.08	$773.22
	CENTRAL HUDSON GAS & ELECTRIC	POUGHKEEPSIE	$8.69	$31.07	$16.87	$8.02	$521.40
	ROCHESTER GAS & ELECTRIC	ROCHESTER	$6.41	$29.89	N/A	N/A	$512.80
	ST. LAWRENCE GAS CO.	MASSENA	$4.19	$11.14	$12.59	$6.20	$569.84
	CONSOLIDATED EDISON CO.	NEW YORK CITY	$7.51	$35.17	N/A	$7.86	N/A
	ORANGE & ROCKLAND UTILITIES	CLARKSTOWN	$6.75	$37.03	$17.85	$6.92	$681.43
	NATIONAL FUEL GAS DIST.	BUFFALO	$7.00	$26.95	$11.17	$6.85	$895.30
PENNSYLVANIA							
	PIKE COUNTY LIGHT & POWER	MILFORD	$5.56	$28.21	$17.85	$6.92	$422.57
	PHILADELPHIA GAS WORKS	PHILADELPHIA	$7.53	$38.77	$9.74	$7.50	$707.82
	PEOPLES NATURAL GAS	PITTSBURGH	$5.52	$21.69	$10.95	$5.77	$579.56
	COLUMBIA GAS OF PA	PITTSBURGH	$5.34	$13.03	N/A	N/A	$522.79
	NORTH PENN GAS CO.	RURAL AREAS	$5.22	$24.91	$10.84	$5.80	$475.63
	PENNSYLVANIA GAS & WATER	SCRANTON	$5.16	$21.63	$10.95	$5.98	$779.16
	PHILADELPHIA ELECTRIC CO.	SUBURBAN PHILA.	$6.45	$38.77	$12.70	$6.52	$579.86
	NATIONAL FUEL GAS DIST.	ERIE	$4.83	$30.15	$10.40	$5.88	$629.35
	UGI CORPORATION	READING	$6.63	$21.98	$11.50	$6.41	$603.99
EAST NORTH CENTRAL							
ILLINOIS							
	PEOPLES GAS LIGHT & COKE	CHICAGO	$5.03	$15.24	N/A	$7.35	$714.26
	NORTH SHORE GAS CO.	WAUKEGAN	$4.77	$14.65	N/A	$7.35	$653.49
	ILLINOIS GAS COMPANY	OLNEY	$5.97	$34.29	$8.81	N/A	$556.17
	IOWA-ILLINOIS GAS & ELECTRIC	ROCK ISLAND	$4.97	$23.55	$7.88	$6.13	$386.35
	CENTRAL ILLINOIS LIGHT CO.	QUINCY	$6.11	$10.23	N/A	N/A	$584.12
	UNITED CITIES GAS CO.	VIRDEN	$5.83	$20.52	$5.15	$4.18	N/A
	ILLINOIS POWER CO.	DECATUR	$5.63	$10.26	$8.21	$6.63	N/A
	NORTHERN ILLINOIS GAS CO.	ROCKFORD	$3.97	$19.90	$8.01	$6.16	$452.58
INDIANA							
	LAWRENCEBURG GAS CO.	LAWRENCEBURG	$6.43	$19.67	$10.07	$7.96	$659.07
	INDIANA NATURAL GAS CORP.	PAOLI	N/A	N/A	N/A	N/A	N/A
	INDIANA GAS COMPANY	INDIANAPOLIS	$5.89	$13.19	$10.29	$5.91	$636.12
	MIDWEST NATURAL GAS CORP	SCOTTSBURG	$5.47	N/A	N/A	N/A	N/A
	NORTHERN INDIANA FUEL & LIGHT	AUBURN	$4.75	$15.53	$9.73	$6.34	$518.70
	NORTHERN INDIANA PUBLIC SERV.	FORT WAYNE	$5.58	$18.00	$9.45	$6.09	$669.60
	CITIZENS GAS & COKE UTILITY	INDIANAPOLIS	$4.92	$10.26	$7.77	$5.70	$442.80

APPENDIX 2 -- COMPETITIVE FUEL PRICES ($/MMBTU)

DIVISION STATE	COMPANY	PRINCIPAL CITY SERVED	AS OF DECEMBER 31, 1992 NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
MICHIGAN							
	MICHIGAN CONSOLIDATED GAS	DETROIT	$5.49	$27.32	$9.31	$7.21	$603.90
	CONSUMERS POWER CO.	LANSING	$4.20	$19.64	$8.21	$6.85	$386.40
	BATTLE CREEK GAS COMPANY	BATTLE CREEK	$4.49	$190.50	$9.31	$7.43	$561.25
	MICHIGAN GAS CO.	HOLLAND	$4.62	$16.41	$9.85	$6.06	$613.54
OHIO							
	DAYTON POWER & LIGHT	DAYTON	$5.34	$14.71	$9.85	$6.06	$435.74
	EAST OHIO GAS CO.	CLEVELAND	$4.22	$23.45	$10.40	$6.27	$358.70
	CINCINNATI GAS & ELECTRIC	CINCINNATI	$4.88	$13.42	$11.97	$6.92	$500.00
	COLUMBIA GAS OF OHIO	COLUMBUS	$5.78	$10.50	N/A	N/A	$539.85
	WEST OHIO GAS CO.	LIMA	$5.21	$19.05	$10.66	$6.74	$475.67
WISCONSIN							
	WISCONSIN NATURAL GAS CO.	RACINE	$5.72	$19.84	$7.55	$6.47	$828.83
	MADISON GAS & ELECTRIC	MADISON	$5.91	$20.22	$7.77	$6.49	$452.71
	WISCONSIN FUEL & LIGHT CO.	WAUSAU	$6.25	$18.76	$8.98	$6.06	$525.00
	WISCONSIN SOUTHERN GAS CO.	LAKE GENEVA	$5.98	$20.84	$8.23	$6.39	$491.72
	WISCONSIN GAS CO.	MILWAUKEE	$6.73	$19.84	$7.43	$6.82	$572.31
WEST NORTH CENTRAL							
IOWA							
	IOWA PUBLIC SERVICE CO.	DES MOINES	$5.80	$26.38	$7.66	N/A	$426.88
	CEDAR FALLS UTILITIES	CEDAR FALLS	$5.30	$14.65	$7.34	$5.98	$561.80
	UNITED CITIES GAS CO.	KEOKUK	$6.93	N/A	$5.15	$4.16	N/A
	PEOPLES NATURAL GAS (UTILICORP)	COUNCIL BLUFFS	$5.53	$17.06	$6.57	$5.77	$666.58
	IOWA-ILLINOIS GAS & ELECTRIC	DAVENPORT	$4.64	$21.37	$7.88	$6.13	$338.26
KANSAS							
	PEOPLES NATURAL GAS (UTILICORP)	GARDEN CITY	$4.59	$17.88	$5.80	$5.41	$367.49
	KANSAS PUBLIC SERVICE	LAWRENCE	$4.43	$16.76	$7.65	$5.41	N/A
	UNITED CITIES GAS CO.	JOHNSON COUNTY	$4.51	$17.58	$9.31	$7.21	N/A
	ARKANSAS LOUISIANA GAS CO.	WICHITA	$4.56	$12.64	N/A	N/A	$224.81
	MIDWEST ENERGY, INC.	HAYS	$3.79	$20.37	$8.54	N/A	$354.22
MINNESOTA							
	IOWA PUBLIC SERVICE CO.	COON RAPIDS	$5.70	$26.38	$7.66	N/A	$397.86
	NORTHERN STATES POWER CO.	ST. PAUL	$5.15	$17.73	$8.65	$6.85	$579.49
	NORTHERN MINNESOTA UTILITIES	CLOQUET	$6.09	N/A	$9.31	$6.34	$714.36
	CITY OF DULUTH	DULUTH	$4.50	$16.85	$9.09	$6.27	$630.00
	PEOPLES NATURAL GAS (UTILICORP)	ROCHESTER	$5.68	$19.75	$7.12	$6.49	$494.04
MISSOURI							
	UNITED CITIES GAS CO.	HANNIBAL	$5.69	$20.52	$5.15	$4.18	N/A
	ASSOCIATED NATURAL GAS CO.	SIKESTON	$5.76	$13.72	$6.56	$5.26	$345.60
	ST. JOSEPH LIGHT & POWER CO.	MARYVILLE	$4.70	$8.79	$7.73	N/A	N/A
	CITY OF SPRINGFIELD	SPRINGFIELD	$4.67	$14.55	$7.65	$5.40	$303.35
	MISSOURI PUBLIC SERVICE	VARIOUS TOWNSHIPS	$5.42	$14.16	N/A	N/A	$352.30
	LACLEDE GAS CO.	ST. LOUIS	$4.55	$13.18	$10.49	$7.15	N/A
NEBRASKA							
	PEOPLES NATURAL GAS (UTILICORP)	BELLEVUE	$5.23	$14.74	$4.93	$5.41	$418.57
	METROPOLITAN UTILITIES DIST.	OMAHA	$4.88	$11.81	$8.76	$6.49	$370.80
	IOWA PUBLIC SERVICE CO.	SOUTH SIOUX CITY	$6.21	$26.38	$7.66	N/A	$391.23
	HASTINGS UTILITIES	HASTINGS	$6.06	$18.87	N/A	N/A	$555.84
	NORTHWESTERN PUBLIC SERVICE	GRAND ISLAND	$4.06	$8.79	$5.26	$5.05	$320.74
NORTH DAKOTA							
	MONTANA-DAKOTA UTILITIES CO.	BISMARCK	$4.99	$25.50	$7.01	$5.34	$578.13
SOUTH DAKOTA							
	MONTANA-DAKOTA UTILITIES CO.	RAPID CITY	$5.48	$20.81	$8.86	$5.70	$503.31
	NORTHWESTERN PUBLIC SERVICE	ABERDEEN	$4.71	$87.92	$7.12	$6.13	$419.19
	IOWA PUBLIC SERVICE CO.	YANKTON	$5.37	$26.38	$7.66	N/A	$373.75
SOUTH ATLANTIC							
DELAWARE							
	DELMARVA POWER & LIGHT CO.	WILMINGTON	$6.97	$15.83	$12.92	$7.07	$732.93
	CHESAPEAKE UTILITIES CORP.	DOVER	$7.37	$24.03	$13.69	$6.49	$729.63
DISTRICT OF COLUMBIA							
	WASHINGTON GAS	WASHINGTON	$8.06	$53.80	$13.03	$7.79	$628.68
FLORIDA							
	PEOPLES GAS SYSTEM, INC.	MIAMI	$7.85	$22.27	$18.50	$11.54	$152.29
	CHESAPEAKE UTILITIES CORP.	WINTER HAVEN	$7.57	$20.43	$14.23	$8.65	$136.24

APPENDIX 2 -- COMPETITIVE FUEL PRICES ($/MMBTU)

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	AS OF DECEMBER 31, 1992 NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
GEORGIA							
	ATLANTA GAS LIGHT COMPANY	ATLANTA	$7.02	$21.98	$10.77	$6.89	$351.70
	UNITED CITIES GAS CO.	COLUMBUS	$6.12	$17.58	$5.36	$4.04	N/A
MARYLAND							
	WASHINGTON GAS	HYATTSVILLE	$7.16	$41.03	$13.03	$7.79	$551.32
	COLUMBIA GAS OF MD	HAGERSTOWN	$6.93	$16.85	N/A	N/A	$634.10
	BALTIMORE GAS & ELECTRIC	BALTIMORE	$6.55	$25.88	N/A	$7.22	$503.70
	CHESAPEAKE UTILITIES CORP.	SALISBURY					
NORTH CAROLINA							
	CITY OF WILSON	WILSON	$5.84	$23.47	$9.74	$6.49	$401.09
	PIEDMONT NATURAL GAS CO.	CHARLOTTE	$4.76	$21.63	$10.73	$6.63	$35.55
	NORTH CAROLINA NATURAL GAS	FAYETTEVILLE	$5.81	$21.98	$10.40	$6.13	$319.37
SOUTH CAROLINA							
	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	$7.55	$17.38	$10.40	N/A	N/A
	PIEDMONT NATURAL GAS CO.	GREENVILLE	$5.79	$24.71	$10.73	$6.63	N/A
	UNITED CITIES GAS CO.	GAFFNEY	$4.54	$21.98	$5.47	$4.04	N/A
VIRGINIA							
	WASHINGTON GAS	FAIRFAX	$7.11	$46.60	$13.03	$7.79	$533.25
	DEPT. OF PUBLIC UTILITIES	RICHMOND	$5.81	$17.58	$12.04	$6.13	N/A
	ROANOKE GAS COMPANY	ROANOKE	$5.95	$18.69	$11.93	$6.99	$583.39
	CITY OF DANVILLE	DANVILLE	$5.36	$16.27	$5.05	$6.70	$478.92
	COMMONWEALTH GAS SERVICES	PORTSMOUTH	$7.09	$17.66	$0.00	N/A	$524.66
	VIRGINIA NATURAL GAS	NORFOLK	$7.43	$24.50	$15.22	$6.63	$379.57
	CITY OF CHARLOTTESVILLE	CHARLOTTESVILLE	$6.27	$17.88	$11.39	$6.84	$532.95
	UNITED CITIES GAS CO.	ABINGDON	$6.70	$16.12	$5.47	$4.05	N/A
WEST VIRGINIA							
	MOUNTAINEER GAS CO.	CHARLESTON	$5.41	$17.35	N/A	N/A	N/A
EAST SOUTH CENTRAL							
ALABAMA							
	HUNTSVILLE UTILITIES GAS DEPT.	HUNTSVILLE	$6.34	$15.65	$10.84	$6.03	$428.35
	MOBILE GAS SERVICE CORP	MOBILE	$6.88	$21.69	$13.69	N/A	$414.86
	DECATUR UTILITIES	DECATUR	$5.98	$14.53	$10.73	N/A	$304.84
	ALABAMA GAS CORP.	BIRMINGHAM	$6.16	$19.69	$10.95	N/A	$314.78
	CITY OF FLORENCE	FLORENCE	$8.03	$15.88	$9.20	$5.62	N/A
KENTUCKY							
	UNION LIGHT, HEAT & POWER	COVINGTON	$4.85	$13.83	$10.51	$7.88	$500.00
	LOUISVILLE GAS & ELECTRIC	LOUISVILLE	$4.78	$13.15	$11.72	$5.28	$337.04
	COLUMBIA GAS OF KY	LEXINGTON	$5.58	$12.51	N/A	N/A	$449.75
MISSISSIPPI							
	MISSISSIPPI VALLEY GAS CO.	JACKSON	$4.57	$24.82	$9.36	N/A	$186.91
	ENTEX, INC.	GULFPORT	$4.77	$17.88	$9.19	$8.08	$190.80
TENNESSEE							
	KNOXVILLE UTILITIES BOARD	KNOXVILLE	$7.12	N/A	N/A	N/A	N/A
	CHATTANOOGA GAS COMPANY	CHATTANOOGA	$5.80	$16.41	$9.85	$7.21	N/A
	MIDDLE TENNESSEE NATURAL GAS	SMITHVILLE	$6.80	$17.70	$12.04	$5.41	$387.60
	NASHVILLE GAS CO.	NASHVILLE	$5.27	$15.24	$8.87	$4.69	$448.29
	MEMPHIS LIGHT, GAS & WATER	MEMPHIS		$16.12	$10.73	N/A	N/A
	UNITED CITIES GAS CO.	BRISTOL	$7.02	$16.12	$5.58	$4.05	N/A
WEST SOUTH CENTRAL							
ARKANSAS							
	ARKANSAS LOUISIANA GAS CO.	LITTLE ROCK	$4.99	$14.15	$11.93	N/A	$239.73
	ARKANSAS WESTERN GAS CO.	FAYETTEVILLE	$5.00	$23.45	$9.20	N/A	$275.00
	ASSOCIATED NATURAL GAS CO.	BLYTHEVILLE	$6.02	$21.28	$10.84	$5.26	$337.12
LOUISIANA							
	ARKANSAS LOUISIANA GAS CO.	SHREVEPORT	$5.95	$11.05	$10.73	N/A	$252.45
	ENTEX,DIVISION OF ARKLA, INC.	LAKE CHARLES	$3.91	$24.03	$14.23	$9.08	$218.96
	LOUISIANA GAS SERVICE CO.	HARVEY	$6.62	$21.92	N/A	N/A	$366.09
	TRANS LOUISIANA GAS COMPANY	LAFAYETTE	$7.06	$19.93	$10.07	N/A	$201.21
OKLAHOMA							
	OKLAHOMA NATURAL GAS CO.	OKLAHOMA CITY	$5.01	$10.26	$6.90	N/A	$318.64
	ARKANSAS LOUISIANA GAS CO.	LAWTON	$4.30	$11.25	$9.31	N/A	$185.20
TEXAS							
	CITY PUBLIC SERVICE	SAN ANTONIO	$5.04	$18.11	$10.40	N/A	$135.23
	ENTEX, DIVISION OF ARKLA, INC	HOUSTON	$5.77	$24.62	$9.85	N/A	$167.33
	ARKANSAS LOUISIANA GAS CO.	TEXARKANA	$5.72	$11.05	$10.40	N/A	$224.85
	LONE STAR GAS CO.	DALLAS	$6.30	$21.98	$9.64	N/A	$302.40

APPENDIX 2 -- COMPETITIVE FUEL PRICES ($/MMBTU)

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	AS OF DECEMBER 31, 1992 NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
MOUNTAIN							
ARIZONA							
	SOUTHWEST GAS CORP.	TUCSON	$7.25	$22.49	$12.04	N/A	$210.25
	CITIZENS UTILITIES CO.	NOGALES	$5.97	$29.31	$11.39	N/A	$218.50
	SOUTHWEST GAS CORP.	PHOENIX	$5.88	$21.98	$10.95	N/A	$150.58
COLORADO							
	CITY OF COLORADO SPRINGS	COLORADO SPRINGS	$4.72	$16.53	N/A	N/A	$292.11
	PUBLIC SERVICE CO OF COLORADO	DENVER	$4.15	$21.10	N/A	$4.47	$265.60
	PEOPLES NATURAL GAS (UTILICORP)	FOUNTAIN	$4.15	$21.13	$7.66	$5.98	$415.43
IDAHO							
	WASHINGTON WATER POWER	COEUR d'ALENE	$4.64	$16.12	$12.04	$7.28	$264.48
	INTERMOUNTAIN GAS CO.	BOISE	$5.28	$13.77	$11.06	$6.92	$298.32
MONTANA							
	MONTANA-DAKOTA UTILITIES CO.	BILLINGS	$5.17	$20.81	$7.45	$6.49	$490.34
	GREAT FALLS GAS CO.	GREAT FALLS	$4.27	$16.41	$9.85	N/A	N/A
NEVADA							
	SOUTHWEST GAS CORP.	LAS VEGAS	$4.59	$16.12	$16.42	$10.09	$142.75
	SIERRA PACIFIC POWER COMPANY	RENO	$4.56	$23.83	$12.04	$6.92	$196.08
NEW MEXICO							
	GAS COMPANY OF NEW MEXICO	ALBUQUERQUE	$4.80	$27.46	$10.40	N/A	$393.60
UTAH							
	MOUNTAIN FUEL SUPPLY CO.	SALT LAKE CITY	$5.17	$17.88	$10.06	$7.67	$359.58
WYOMING							
	MONTANA-DAKOTA UTILITIES CO.	SHERIDAN	$5.13	$14.38	$6.35	$5.19	$531.57
	CODY GAS	CODY	$3.40	$14.36	$9.84	N/A	$462.06
	MOUNTAIN FUEL SUPPLY CO.	ROCK SPRINGS	$5.45	$10.61	N/A	N/A	$441.48
PACIFIC							
CALIFORNIA							
	SAN DIEGO GAS & ELECTRIC	SAN DIEGO	$5.88	$33.26	$14.78	N/A	$99.96
	CITY OF LONG BEACH GAS DEPT.	LONG BEACH	$6.18	$38.10	N/A	N/A	$96.35
	SOUTHERN CALIFORNIA GAS CO.	LOS ANGELES	$6.52	N/A	N/A	N/A	$134.70
	SOUTHWEST GAS CORP.	VICTORVILLE	$7.68	$41.03	$13.14	N/A	$284.16
	PACIFIC GAS AND ELECTRIC	SAN FRANCISCO	$6.10	$34.88	$12.26	N/A	$186.05
OREGON							
	NORTHWEST NATURAL GAS CO.	PORTLAND	$6.31	$15.04	$11.39	$6.96	$429.28
	WASHINGTON WATER POWER CO.	MEDFORD	$4.96	$20.52	$11.06	$7.93	$218.24
	CASCADE NATURAL GAS CORP		$5.66	$16.41	$16.20	$7.93	$339.80
WASHINGTON							
	WASHINGTON NATURAL GAS CO.	SEATTLE	$5.28	$11.07	$10.28	$7.18	$353.41
	CASCADE NATURAL GAS CORP		$4.72	$16.71	$16.09	$7.93	$283.42
	WASHINGTON WATER POWER	SPOKANE	$3.30	$16.12	$11.06	$7.93	$214.50
	NORTHWEST NATURAL GAS CO.	VANCOUVER	$5.86	$15.04	$11.39	$6.96	$415.78

Appendix 3
Additions from New Construction and Conversions

NOTE: Appendix 3 includes projections of 1993 additions from new construction, conversions and losses as reported by the responding companies.

APPENDIX 3 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1992	ADDITIONS FROM NEW CONSTRUCTION 1993 Forecast	TOTAL CONVERSIONS TO GAS 1992	TOTAL CONVERSIONS TO GAS 1993 Forecast	LESS TOTAL LOSSES 1992	LESS TOTAL LOSSES 1993 Forecast	NET ADDITIONS 1992	NET ADDITIONS 1993 Forecast
NEW ENGLAND									
CONNECTICUT									
	CONNECTICUT NATURAL GAS CORP.	1,064	1,100	3,789	4,000	72	90	4,781	5,010
	SOUTHERN CONNECTICUT GAS CO.	952	N/A	1,936	3,200	483	N/A	2,405	3,200
	YANKEE GAS SERVICES CO.	826	1,820	614	927	409	655	1,031	2,092
	TOTAL CONNECTICUT	2,842	2,920	6,339	8,127	964	745	8,217	10,302
MAINE									
	NORTHERN UTILITIES	14	25	1,000	1,050	125	100	889	975
	TOTAL MAINE	14	25	1,000	1,050	125	100	889	975
MASSACHUSETTS									
	FALL RIVER GAS COMPANY	202	250	171	170	171	32	202	388
	COLONIAL GAS CO. - LOWELL	2,020	2,100	4,303	2,000	N/A	N/A	6,323	4,100
	ESSEX COUNTY GAS CO.	456	400	370	231	339	339	487	292
	BAY STATE GAS COMPANY	2,300	2,300	4,400	4,400	500	400	6,200	6,300
	COMMONWEALTH GAS CO.	1,339	869	2,605	1,854	N/A	N/A	3,944	2,723
	BERKSHIRE GAS COMPANY	77	75	494	477	24	28	547	524
	TOTAL MASSACHUSETTS	6,394	5,994	12,343	9,132	1,034	799	17,703	14,327
NEW HAMPSHIRE									
	ENERGYNORTH, Inc.	122	150	594	735	63	66	653	819
	NORTHERN UTILITIES	150	150	600	600	20	25	730	725
	TOTAL NEW HAMPSHIRE	272	300	1,194	1,335	83	91	1,383	1,544
RHODE ISLAND									
	VALLEY GAS CO	165	90	1,051	520	23	23	1,193	587
	PROVIDENCE GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL RHODE ISLAND	165	90	1,051	520	23	23	1,193	587
VERMONT									
	VERMONT GAS SYSTEMS	349	311	770	649	25	25	1,094	935
	TOTAL VERMONT	349	311	770	649	25	25	1,094	935
	TOTAL NEW ENGLAND	10,036	9,640	22,697	20,813	2,254	1,783	30,479	28,670
MIDDLE ATLANTIC									
NEW JERSEY									
	SOUTH JERSEY GAS CO.	4,966	4,500	1,676	3,000	16	19	6,626	7,481
	NEW JERSEY NATURAL GAS COMPANY	5,215	5,600	2,708	4,300	N/A	N/A	7,923	9,900
	ELIZABETHTOWN GAS CO.	1,342	1,728	2,564	2,207	N/A	N/A	3,906	3,935
	PUBLIC SERVICE ELECTRIC & GAS	7,500	N/A	8,882	N/A	N/A	N/A	16,382	N/A
	TOTAL NEW JERSEY	19,023	11,828	15,830	9,507	16	19	34,837	21,316
NEW YORK									
	LONG ISLAND LIGHTING CO.	1,729	1,750	5,677	5,800	134	151	7,272	7,399
	BROOKLYN UNION GAS CO.	4,780	4,600	17,209	12,000	N/A	N/A	21,989	16,600
	CENTRAL HUDSON GAS & ELECTRIC	470	500	549	400	N/A	N/A	1,019	900
	ROCHESTER GAS & ELECTRIC	2,129	2,494	3,700	1,701	554	283	5,275	3,912
	ST. LAWRENCE GAS CO.	33	30	293	380	13	14	313	396
	CONSOLIDATED EDISON CO.	1,664	2,034	2,389	2,636	200	200	3,853	4,470
	ORANGE & ROCKLAND UTILITIES	927	N/A	208	N/A	N/A	N/A	1,135	N/A
	NATIONAL FUEL GAS DIST.	2,847	2,850	1,127	1,140	732	N/A	3,242	3,990
	TOTAL NEW YORK	14,579	14,258	31,152	24,057	1,633	648	44,098	37,667
PENNSYLVANIA									
	PIKE COUNTY LIGHT & POWER	6	N/A	N/A	N/A	N/A	N/A	6	N/A
	PHILADELPHIA GAS WORKS	1,176	1,000	1,529	1,500	N/A	N/A	2,705	2,500
	PEOPLES NATURAL GAS	2,288	2,080	452	N/A	N/A	N/A	2,740	2,080
	COLUMBIA GAS OF PA	3,185	3,336	792	859	900	543	3,077	3,652
	NORTH PENN GAS CO.	338	316	117	109	N/A	N/A	455	425
	PENNSYLVANIA GAS & WATER	786	787	2,581	2,590	891	900	2,476	2,477
	PHILADELPHIA ELECTRIC CO.	5,036	6,452	4,068	2,000	N/A	N/A	9,104	8,452
	NATIONAL FUEL GAS DIST.	1,054	N/A	646	645	182	N/A	1,518	645
	UGI CORPORATION	3,654	3,100	2,575	2,913	706	710	5,523	5,303
	TOTAL PENNSYLVANIA	17,523	17,071	12,760	10,616	2,679	2,153	27,604	25,534
	TOTAL MIDDLE ATLANTIC	51,125	43,157	59,742	44,180	4,328	2,820	106,539	84,517
	TOTAL NORTHEAST	61,161	52,797	82,439	64,993	6,582	4,603	137,018	113,187

APPENDIX 3 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1992	ADDITIONS FROM NEW CONSTRUCTION 1993 Forecast	TOTAL CONVERSIONS TO GAS 1992	TOTAL CONVERSIONS TO GAS 1993 Forecast	[illegible] TOTAL LOSSES 1992	[illegible] TOTAL LOSSES 1993 Forecast	NET ADDITIONS 1992	NET ADDITIONS 1993 Forecast
EAST NORTH CENTRAL									
ILLINOIS									
	PEOPLES GAS LIGHT & COKE	4,494	7,656	58	26	1,100	1,100	3,452	6,582
	NORTH SHORE GAS CO.	2,270	2,331	138	167	100	100	2,308	2,398
	ILLINOIS GAS COMPANY	62	30	62	42	28	21	98	51
	IOWA-ILLINOIS GAS & ELECTRIC	385	325	21	24	13	15	393	334
	CENTRAL ILLINOIS LIGHT CO.	N/A	N/A	1,813	N/A	N/A	N/A	1,813	N/A
	UNITED CITIES GAS CO.	195	213	99	101	N/A	N/A	294	314
	ILLINOIS POWER CO.	N/A	N/A	250	N/A	N/A	N/A	250	N/A
	NORTHERN ILLINOIS GAS CO.	36,774	N/A	1,572	N/A	10,346	N/A	28,000	N/A
	TOTAL ILLINOIS	44,180	10,555	4,013	360	11,585	1,236	36,608	9,679
INDIANA									
	LAWRENCEBURG GAS CO.	134	100	42	50	N/A	N/A	176	150
	INDIANA NATURAL GAS CORP.	178	100	80	80	N/A	N/A	258	180
	INDIANA GAS COMPANY	N/A	N/A	7,880	N/A	N/A	N/A	7,880	N/A
	MIDWEST NATURAL GAS CORP	404	N/A	N/A	N/A	N/A	N/A	404	N/A
	NORTHERN INDIANA FUEL & LIGHT	509	585	296	315	N/A	N/A	805	900
	NORTHERN INDIANA PUBLIC SERV.	7,938	N/A	1,650	N/A	N/A	N/A	9,588	N/A
	CITIZENS GAS & COKE UTILITY	2,408	N/A	1,003	N/A	N/A	N/A	3,411	N/A
	TOTAL INDIANA	11,571	785	10,951	445	N/A	N/A	22,522	1,230
MICHIGAN									
	MICHIGAN CONSOLIDATED GAS	N/A	N/A	12,600	14,400	5,000	5,000	7,600	9,400
	CONSUMERS POWER CO.	5,378	9,000	1,197	1,400	N/A	N/A	6,575	10,400
	BATTLE CREEK GAS COMPANY	156	100	230	220	98	100	288	220
	MICHIGAN GAS CO.	1,274	1,000	1,456	976	497	500	2,233	1,476
	TOTAL MICHIGAN	6,808	10,100	15,483	16,996	5,595	5,600	16,696	21,496
OHIO									
	DAYTON POWER & LIGHT	973	N/A	N/A	N/A	N/A	N/A	973	N/A
	EAST OHIO GAS CO.	7,373	7,400	2,829	3,777	1,662	1,667	8,540	9,510
	CINCINNATI GAS & ELECTRIC	5,100	5,000	1,450	1,500	N/A	N/A	6,550	6,500
	COLUMBIA GAS OF OHIO	14,063	14,934	3,809	3,655	2,992	2,149	14,880	16,440
	WEST OHIO GAS CO.	407	450	333	273	16	100	724	623
	TOTAL OHIO	27,916	27,784	8,421	9,205	4,670	3,916	31,667	33,073
WISCONSIN									
	WISCONSIN NATURAL GAS CO.	7,038	6,730	1,958	1,850	629	600	8,367	7,980
	MADISON GAS & ELECTRIC	1,323	1,817	713	979	N/A	N/A	2,036	2,796
	WISCONSIN FUEL & LIGHT CO.	685	519	199	151	0	0	884	670
	WISCONSIN SOUTHERN GAS CO.	863	968	390	242	10	10	1,243	1,200
	WISCONSIN GAS CO.	9,894	8,875	709	1,600	676	350	9,927	10,125
	TOTAL WISCONSIN	19,803	18,909	3,969	4,822	1,315	960	22,457	22,771
	TOTAL EAST NORTH CENTRAL	110,278	68,133	42,837	31,828	23,165	11,712	129,950	88,249
WEST NORTH CENTRAL									
IOWA									
	IOWA PUBLIC SERVICE CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CEDAR FALLS UTILITIES	110	100	25	65	2	0	133	165
	UNITED CITIES GAS CO.	35	35	38	38	N/A	N/A	73	73
	PEOPLES NATURAL GAS (UTILICORP)	1,047	897	1,414	830	N/A	N/A	2,461	1,727
	IOWA-ILLINOIS GAS & ELECTRIC	2,662	2,949	349	300	120	100	2,891	3,149
	TOTAL IOWA	3,854	3,981	1,826	1,233	122	100	5,558	5,114
KANSAS									
	PEOPLES NATURAL GAS (UTILICORP)	322	403	145	39	N/A	N/A	467	442
	KANSAS PUBLIC SERVICE	715	650	N/A	N/A	0	35	715	615
	UNITED CITIES GAS CO.	1,400	1,400	50	50	N/A	N/A	1,450	1,450
	ARKANSAS LOUISIANA GAS CO.	N/A	N/A	602	N/A	N/A	N/A	602	N/A
	MIDWEST ENERGY, INC.	23	31	3	4	11	7	15	28
	TOTAL KANSAS	2,460	2,484	800	93	11	42	3,249	2,535
MINNESOTA									
	IOWA PUBLIC SERVICE CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN STATES POWER CO.	6,570	N/A	1,627	3,700	300	N/A	7,897	3,700
	NORTHERN MINNESOTA UTILITIES	50	50	2,294	1,550	20	20	2,324	1,580
	CITY OF DULUTH	134	150	410	430	20	20	524	560
	PEOPLES NATURAL GAS (UTILICORP)	2,897	2,870	1,700	1,531	N/A	N/A	4,597	4,401
	TOTAL MINNESOTA	9,651	3,070	6,031	7,211	340	40	15,342	10,241

APPENDIX 3 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1992	ADDITIONS FROM NEW CONSTRUCTION 1993 Forecast	TOTAL CONVERSIONS TO GAS 1992	TOTAL CONVERSIONS TO GAS 1993 Forecast	LESS TOTAL LOSSES 1992	LESS TOTAL LOSSES 1993 Forecast	NET ADDITIONS 1992	NET ADDITIONS 1993 Forecast
MISSOURI									
	UNITED CITIES GAS CO.	140	183	68	77	N/A	N/A	208	260
	ASSOCIATED NATURAL GAS CO.	N/A	N/A	N/A	N/A	335	N/A	(335)	N/A
	ST. JOSEPH LIGHT & POWER CO.	4	5	18	20	1	N/A	21	25
	CITY OF SPRINGFIELD	954	N/A	N/A	N/A	N/A	N/A	954	N/A
	MISSOURI PUBLIC SERVICE	560	N/A	N/A	N/A	0	N/A	560	N/A
	LACLEDE GAS CO.	5,657	5,700	948	960	2,168	2,170	4,437	4,490
	TOTAL MISSOURI	7,315	5,888	1,034	1,057	2,504	2,170	5,845	4,775
NEBRASKA									
	PEOPLES NATURAL GAS (UTILICORP)	634	575	389	240	N/A	N/A	1,023	815
	METROPOLITAN UTILITIES DIST.	2,358	2,250	190	250	N/A	N/A	2,548	2,500
	IOWA PUBLIC SERVICE CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	HASTINGS UTILITIES	34	50	N/A	N/A	10	10	24	40
	NORTHWESTERN PUBLIC SERVICE	430	500	N/A	N/A	0	0	430	500
	TOTAL NEBRASKA	3,456	3,375	579	490	10	10	4,025	3,855
NORTH DAKOTA									
	MONTANA-DAKOTA UTILITIES CO.	1,627	1,600	222	200	31	30	1,818	1,770
	TOTAL NORTH DAKOTA	1,627	1,600	222	200	31	30	1,818	1,770
SOUTH DAKOTA									
	MONTANA-DAKOTA UTILITIES CO.	1,000	1,000	98	90	12	10	1,086	1,080
	NORTHWESTERN PUBLIC SERVICE	1,590	1,800	N/A	N/A	N/A	N/A	1,590	1,800
	IOWA PUBLIC SERVICE CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL SOUTH DAKOTA	2,590	2,800	98	90	12	10	2,676	2,880
	TOTAL WEST NORTH CENTRAL	30,953	23,198	10,590	10,374	3,030	2,402	38,513	31,170
	TOTAL MIDWEST	141,231	91,331	53,427	42,202	26,195	14,114	168,463	119,419
SOUTH ATLANTIC									
DELAWARE									
	DELMARVA POWER & LIGHT CO.	N/A	N/A	2,451	1,339	N/A	N/A	2,451	1,339
	CHESAPEAKE UTILITIES CORP.	461	N/A	99	0	2	N/A	558	N/A
	TOTAL DELAWARE	461	N/A	2,550	1,339	2	N/A	3,009	1,339
DISTRICT OF COLUMBIA									
	WASHINGTON GAS	1,526	1,894	443	443	850	N/A	1,119	2,337
	TOTAL WASHINGTON	1,526	1,894	443	443	850	N/A	1,119	2,337
FLORIDA									
	PEOPLES GAS SYSTEM, INC.	1,237	1,910	1,057	1,574	1,765	1,706	529	1,778
	CHESAPEAKE UTILITIES CORP.	68	100	37	50	20	20	85	130
	TOTAL FLORIDA	1,305	2,010	1,094	1,624	1,785	1,726	614	1,908
GEORGIA									
	ATLANTA GAS LIGHT COMPANY	22,857	24,000	3,942	4,000	N/A	N/A	26,799	28,000
	UNITED CITIES GAS CO.	575	776	59	68	N/A	N/A	634	844
	TOTAL GEORGIA	23,432	24,776	4,001	4,068	N/A	N/A	27,433	28,844
MARYLAND									
	WASHINGTON GAS	7,318	8,150	279	307	400	N/A	7,197	8,457
	COLUMBIA GAS OF MD	261	355	126	129	157	42	230	442
	BALTIMORE GAS & ELECTRIC	4,427	5,939	1,602	2,500	0	2,045	6,029	6,394
	TOTAL MARYLAND	12,006	14,444	2,007	2,936	557	2,087	13,456	15,293
NORTH CAROLINA									
	CITY OF WILSON	121	136	186	204	N/A	N/A	307	340
	PIEDMONT NATURAL GAS CO.	6,240	5,702	7,362	7,593	N/A	N/A	13,602	13,295
	NORTH CAROLINA NATURAL GAS	1,614	2,000	3,452	3,275	100	100	4,966	5,175
	TOTAL NORTH CAROLINA	7,975	7,838	11,000	11,072	100	100	18,875	18,810
SOUTH CAROLINA									
	SOUTH CAROLINA ELECTRIC & GAS	1,400	1,650	1,175	1,850	N/A	N/A	2,575	3,500
	PIEDMONT NATURAL GAS CO.	1,352	1,350	2,573	2,355	N/A	N/A	3,925	3,705
	UNITED CITIES GAS CO.	38	40	100	110	N/A	N/A	138	150
	TOTAL SOUTH CAROLINA	2,790	3,040	3,848	4,315	N/A	N/A	6,638	7,355
VIRGINIA									
	WASHINGTON GAS	9,222	8,643	245	269	300	N/A	9,167	8,912
	DEPT. OF PUBLIC UTILITIES	1,000	1,000	800	800	500	N/A	1,300	1,800
	ROANOKE GAS COMPANY	607	498	526	432	N/A	N/A	1,133	930
	CITY OF DANVILLE	235	250	65	50	35	30	265	270
	COMMONWEALTH GAS SERVICES	3,447	3,550	1,323	1,183	616	274	4,154	4,459
	VIRGINIA NATURAL GAS	6,604	3,578	2,556	2,511	100	0	9,060	6,089
	CITY OF CHARLOTTESVILLE	114	100	48	37	8	3	154	134

APPENDIX 3 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1992	ADDITIONS FROM NEW CONSTRUCTION 1993 Forecast	TOTAL CONVERSIONS TO GAS 1992	TOTAL CONVERSIONS TO GAS 1993 Forecast	LESS TOTAL LOSSES 1992	LESS TOTAL LOSSES 1993 Forecast	NET ADDITIONS 1992	NET ADDITIONS 1993 Forecast
	UNITED CITIES GAS CO.	275	351	561	582	N/A	N/A	836	933
	TOTAL VIRGINIA	21,504	17,970	6,124	5,864	1,559	307	26,069	23,527
WEST VIRGINIA									
	MOUNTAINEER GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL WEST VIRGINIA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL SOUTH ATLANTIC	70,999	71,972	31,067	31,661	4,853	4,220	97,213	99,413
EAST SOUTH CENTRAL									
ALABAMA									
	HUNTSVILLE UTILITIES GAS DEPT.	582	612	195	205	30	25	747	792
	MOBILE GAS SERVICE CORP	819	1,000	231	285	218	220	832	1,065
	DECATUR UTILITIES	220	305	121	109	11	16	330	398
	ALABAMA GAS CORP.	4,004	3,800	926	820	700	700	4,230	3,920
	CITY OF FLORENCE	241	200	439	285	17	10	663	475
	TOTAL ALABAMA	5,866	5,917	1,912	1,704	976	971	6,802	6,650
KENTUCKY									
	UNION LIGHT, HEAT & POWER	1,116	1,000	525	400	N/A	N/A	1,641	1,400
	LOUISVILLE GAS & ELECTRIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	COLUMBIA GAS OF KY	2,141	2,128	244	242	569	533	1,816	1,837
	TOTAL KENTUCKY	3,257	3,128	769	642	569	533	3,457	3,237
MISSISSIPPI									
	MISSISSIPPI VALLEY GAS CO.	4,188	4,100	651	900	1,491	1,500	3,348	3,500
	ENTEX, INC.	1,609	1,500	11,993	600	429	400	13,173	1,700
	TOTAL MISSISSIPPI	5,797	5,600	12,644	1,500	1,920	1,900	16,521	5,200
TENNESSEE									
	KNOXVILLE UTILITIES BOARD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CHATTANOOGA GAS COMPANY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MIDDLE TENNESSEE NATURAL GAS	1,206	1,400	1,910	1,309	60	60	3,056	2,649
	NASHVILLE GAS CO.	1,972	2,250	2,623	3,000	N/A	N/A	4,595	5,250
	MEMPHIS LIGHT, GAS & WATER	3,459	3,000	N/A	N/A	N/A	N/A	3,459	3,000
	UNITED CITIES GAS CO.	3,535	4,355	2,040	2,062	N/A	N/A	5,575	6,417
	TOTAL TENNESSEE	10,172	11,005	6,573	6,371	60	60	16,685	17,316
	TOTAL EAST SOUTH CENTRAL	25,092	25,650	21,898	10,217	3,525	3,464	43,465	32,403
WEST SOUTH CENTRAL									
ARKANSAS									
	ARKANSAS LOUISIANA GAS CO.	1,187	1,906	6,855	N/A	432	N/A	7,610	1,906
	ARKANSAS WESTERN GAS CO.	2,000	N/A	N/A	N/A	N/A	N/A	2,000	N/A
	ASSOCIATED NATURAL GAS CO.	N/A	N/A	N/A	N/A	432	N/A	(432)	N/A
	TOTAL ARKANSAS	3,187	1,906	6,855	N/A	864	0	9,178	1,906
LOUISIANA									
	ARKANSAS LOUISIANA GAS CO.	449	454	1,481	N/A	N/A	N/A	1,930	454
	ENTEX,DIVISION OF ARKLA, INC.	652	570	395	358	620	720	427	208
	LOUISIANA GAS SERVICE CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TRANS LOUISIANA GAS COMPANY	337	N/A	125	N/A	0	0	462	N/A
	TOTAL LOUISIANA	1,438	1,024	2,001	358	620	720	2,819	662
OKLAHOMA									
	OKLAHOMA NATURAL GAS CO.	5,226	6,100	1,869	3,100	1,050	1,100	6,045	8,100
	ARKANSAS LOUISIANA GAS CO.	208	210	1,498	N/A	N/A	N/A	1,706	210
	TOTAL OKLAHOMA	5,434	6,310	3,367	3,100	1,050	1,100	7,751	8,310
TEXAS									
	CITY PUBLIC SERVICE	3,450	3,511	N/A	N/A	4,109	4,182	(659)	(671)
	ENTEX, DIVISION OF ARKLA, INC	16,415	16,422	1,649	1,826	553	450	17,511	17,798
	ARKANSAS LOUISIANA GAS CO.	238	240	324	N/A	N/A	N/A	562	240
	LONE STAR GAS CO.	21,708	23,000	80	150	6,311	6,564	15,477	16,586
	TOTAL TEXAS	41,811	43,173	2,053	1,976	10,973	11,196	32,891	33,953
	TOTAL WEST SOUTH CENTRAL	51,870	52,413	14,276	5,434	13,507	13,016	52,639	44,831
	TOTAL SOUTH	147,961	150,035	67,241	47,312	21,885	20,700	193,317	176,647

APPENDIX 3 -- ADDITIONS FROM NEW CONSTRUCTION AND CONVERSIONS

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1992	ADDITIONS FROM NEW CONSTRUCTION 1993 Forecast	TOTAL CONVERSIONS TO GAS 1992	TOTAL CONVERSIONS TO GAS 1993 Forecast	LESS TOTAL LOSSES 1992	LESS TOTAL LOSSES 1993 Forecast	NET ADDITIONS 1992	NET ADDITIONS 1993 Forecast
MOUNTAIN									
ARIZONA									
	SOUTHWEST GAS CORP.	3,895	4,410	596	450	0	0	4,491	4,860
	CITIZENS UTILITIES CO.	111	N/A	N/A	N/A	4	4	107	(4)
	SOUTHWEST GAS CORP.	4,500	5,000	1,525	1,000	700	700	5,325	5,300
	TOTAL ARIZONA	8,506	9,410	2,121	1,450	704	704	9,923	10,156
COLORADO									
	CITY OF COLORADO SPRINGS	2,211	1,620	N/A	N/A	N/A	N/A	2,211	1,620
	PUBLIC SERVICE CO OF COLORADO	15,754	15,990	N/A	N/A	N/A	N/A	15,754	15,990
	PEOPLES NATURAL GAS (UTILICORP)	979	500	463	500	N/A	N/A	1,442	1,000
	TOTAL COLORADO	18,944	18,110	463	500	N/A	N/A	19,407	18,610
IDAHO									
	WASHINGTON WATER POWER	1,300	1,200	1,300	1,200	N/A	N/A	2,600	2,400
	INTERMOUNTAIN GAS CO.	4,172	NA	3,198	N/A	N/A	N/A	7,370	N/A
	TOTAL IDAHO	5,472	1,200	4,498	1,200	N/A	N/A	9,970	2,400
MONTANA									
	MONTANA-DAKOTA UTILITIES CO.	1,059	1,000	178	175	26	25	1,211	1,150
	GREAT FALLS GAS CO.			384	N/A	N/A	N/A	384	N/A
	TOTAL MONTANA	1,059	1,000	562	175	26	25	1,595	1,150
NEVADA									
	SOUTHWEST GAS CORP.	14,214	11,148	578	610	50	50	14,742	11,708
	SIERRA PACIFIC POWER COMPANY	1,791	2,275	600	600	0	0	2,391	2,875
	TOTAL NEVADA	16,005	13,423	1,178	1,210	50	50	17,133	14,583
NEW MEXICO									
	GAS COMPANY OF NEW MEXICO	3,247	4,087	1,713	1,500	36	16	4,924	5,571
	TOTAL NEW MEXICO	3,247	4,087	1,713	1,500	36	16	4,924	5,571
UTAH									
	MOUNTAIN FUEL SUPPLY CO.	11,763	11,850	2,612	N/A	621	N/A	13,754	11,850
	TOTAL UTAH	11,763	11,850	2,612	N/A	621	N/A	13,754	11,850
WYOMING									
	MONTANA-DAKOTA UTILITIES CO.	141	150	36	40	5	5	172	185
	CODY GAS	55	80	20	N/A	1	N/A	74	80
	MOUNTAIN FUEL SUPPLY CO.	216	150	N/A	N/A	31	N/A	185	150
	TOTAL WYOMING	412	380	56	40	37	5	431	415
	TOTAL MOUNTAIN	65,408	59,460	13,203	6,075	1,474	800	77,137	64,735
PACIFIC									
CALIFORNIA									
	SAN DIEGO GAS & ELECTRIC	4,882	4,375	N/A	N/A	N/A	N/A	4,882	4,375
	CITY OF LONG BEACH GAS DEPT.	497	N/A	N/A	N/A	75	N/A	422	N/A
	SOUTHERN CALIFORNIA GAS CO.	55,775	N/A	18,098	N/A	36,836	N/A	37,037	N/A
	SOUTHWEST GAS CORP.	2,712	2,772	320	321	6	4	3,026	3,089
	PACIFIC GAS AND ELECTRIC	86,000	86,000	N/A	N/A	N/A	N/A	86,000	86,000
	TOTAL CALIFORNIA	149,866	93,147	18,418	321	36,917	4	131,367	93,464
OREGON									
	NORTHWEST NATURAL GAS CO.	7,319	7,223	6,191	5,633	703	703	12,807	12,153
	WASHINGTON WATER POWER CO.	1,600	2,100	3,300	4,200	N/A	N/A	4,900	6,300
	CASCADE NATURAL GAS CORP	777	800	353	400	N/A	N/A	1,130	1,200
	TOTAL OREGON	9,696	10,123	9,844	10,233	703	703	18,837	19,653
WASHINGTON									
	WASHINGTON NATURAL GAS CO.	9,299	9,000	13,613	10,303	160	160	22,752	19,143
	CASCADE NATURAL GAS CORP.	3,338	3,600	1,182	1,100	N/A	N/A	4,520	4,700
	WASHINGTON WATER POWER	2,500	2,400	3,200	3,700	N/A	N/A	5,700	6,100
	NORTHWEST NATURAL GAS CO.	1,576	1,432	450	409	102	102	1,924	1,739
	TOTAL WASHINGTON	16,713	16,432	18,445	15,512	262	262	34,896	31,682
	TOTAL PACIFIC	176,275	119,702	46,707	18,566	37,882	969	185,100	144,799
	TOTAL WEST	241,683	179,162	59,910	24,641	39,356	1,769	262,237	209,534
	TOTAL US	592,036	473,325	263,017	179,148	94,018	41,186	761,035	618,787

Appendix 4

Census Regions, Divisions and Corresponding States

NORTHEAST

New England
- Connecticut
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

Middle Atlantic
- New Jersey
- New York
- Pennsylvania

MIDWEST

East North Central
- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

West North Central
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

SOUTH

South Atlantic
- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

East South Central
- Alabama
- Kentucky
- Mississippi
- Tennessee

West South Central
- Arkansas
- Louisiana
- Oklahoma
- Texas

WEST

Mountain
- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

Pacific
- Alaska
- California
- Hawaii
- Oregon
- Washington

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RESIDENTIAL
NATURAL GAS
MARKET SURVEY

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Residential Natural Gas Market

Survey: 1993

46th Annual Survey
Natural Gas Utility Industry
United States

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Contents

Page

Introduction 1

I. Executive Summary 3

II. United States Housing Market in 1993 5

New Housing Completions 5
Existing Housing 8

III. Residential Natural Gas Customers in 1993 10

Total Residential Customers 10
Househeating Customers 10
Natural Gas Househeating Unit Additions 10
Househeating Conversions 12

IV. Residential Natural Gas Consumption 14

Natural Gas Consumption per Unit 14
Heating Bills 16

Appendix 1 - 1993 Househeating Customer and Consumption Data By Company

Appendix 2 - 1993 Competitive Fuel Prices By Company

Appendix 3- 1993 Additions from New Construction and Conversions

Appendix 4- Census Regions, Divisions and Corresponding States

List of Tables

Page

1. 1993 Private Housing Completions by Heating Fuel 6
2. A Comparison of 1992 and 1993 Private Housing Completions 7
3. Market Share of Private Housing Completions by Heating Fuel (1980-1993) 8
4. 1990 Househeating Fuel Market Share (Existing Housing) 9
5. Customers and Unit Additions 11
   (as of December 31, 1993)
6. 1993 Househeating Conversions to Natural Gas by Fuel by Division 12
7. Househeating Conversions to Natural Gas by Fuel (1983-1993) 12
8. 1993 Average Natural Gas Consumption/Unit by Region 15
9. 1992 and 1993 Natural Gas Househeating Bills by Division 16

List of Figures

1. Natural Gas vs. Electric Single Family Home Completions 1982-1993 3
2. Housing Completions by Region - 1993 5
3. Market Share of Gas and Electric Housing Completions 6
4. Househeating Additions by Division - 1993 10
5. Househeating Conversions to Natural Gas by Fuel 13

INTRODUCTION

This year's report is the 46th annual Residential Natural Gas Market Survey conducted by the American Gas Association. The data collected for 1993 provide a unique and comprehensive portrait of the residential natural gas market. Detailed information is presented by state and region, including customers, market share, inventory additions from new homes, and conversions from alternative fuels. **Company-specific data are reported in Appendices 1, 2 and 3.**

A total of 134 natural gas utility companies responded to this year's survey, down from 152 responses in 1992. Those companies operating in more than one state completed a questionnaire for each state in which they operate, resulting in 172 individual forms submitted. The respondent companies represented a majority of the nation's residential natural gas customers, i.e., some 73 percent in 1993. The information provided by these utilities was expanded to obtain the state and national customer totals shown in Table 5. Individual company data are listed by region and state in Appendices 1, 2 and 3. Included in Appendix 3 are 1994 forecasts for additions from new construction, conversions and losses. Please note that some tabular data may not add to totals due to rounding.

Incorporated in the survey results are data regarding new private housing completions from the U.S. Bureau of the Census. The source of this data is different from the statistics compiled from the survey respondents and should be evaluated separately from each other.

Our thanks go to those companies participating in the 1993 Residential Natural Gas Market Survey information-gathering effort. Their cooperation and support are the essential elements that have made this publication a primary source of natural gas utility industry data and an important industry reference.

Credit also goes to Manager, Environmental Analysis, Donna Banks; Research Assistant, Mariam Arnaout; and Senior Secretary, Lisa Ramey. Also contributing to the effort were Paul Wilkinson, Senior Director, Policy and Environmental Analysis, and Nelson Hay, Vice President, Policy, Analysis and International Affairs Group.

I. Executive Summary

- The residential natural gas customer count exceeded 53 million in 1993, a 2.3 percent increase from 1992. Consistent with the 1992 survey, nearly 91 percent of these natural gas customers use natural gas for house heating purposes.

- Total conversions of existing units from other fuels to natural gas househeating were over 311,000 in 1993, a 4.8 percent increase from last year's level. Based on A.G.A. survey data, 107,159 or 34.4 percent of all heating conversions were from electricity to natural gas, 95,080 (30.5%) were from fuel oil, 33,104 (10.6%) from LPG, and 76,094 (24.4%) from "other fuels" (coal, wood, and non-classified). This is the first year that conversions from electricity exceeded those from oil.

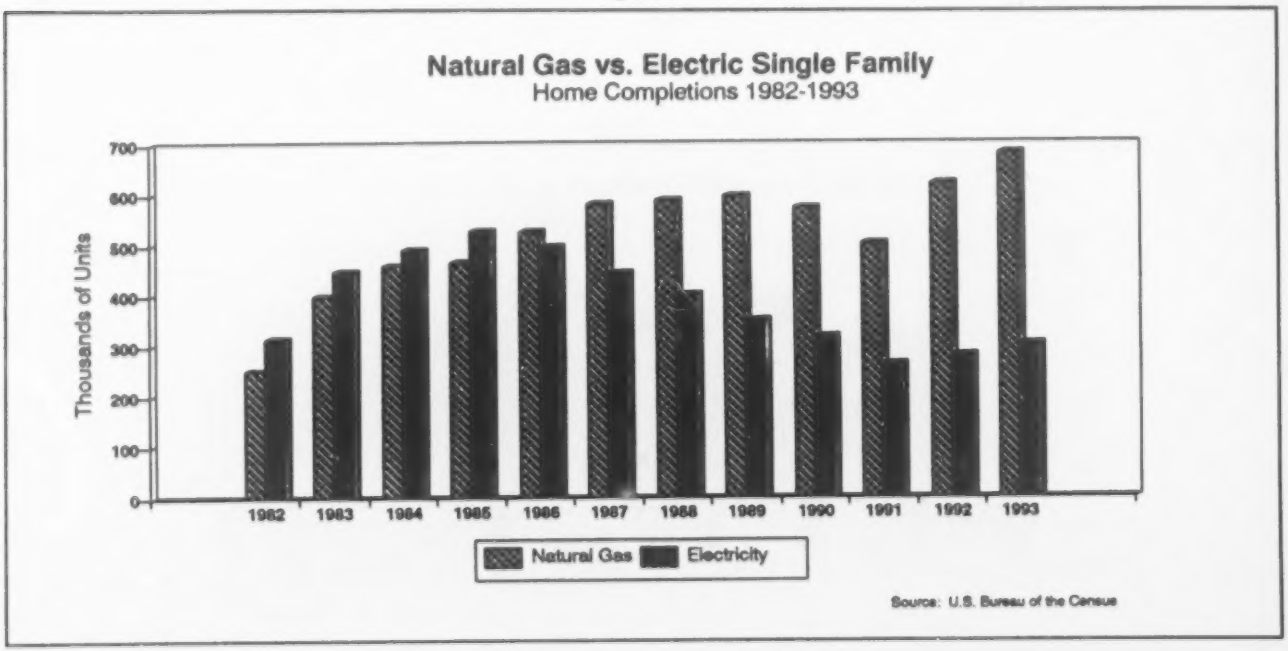
- Compared with 1992, the largest gains in conversions were in the East North Central and the South Atlantic divisions. The growth in "other" conversions is attributed to many of the respondents' not being able to provide a detailed breakdown of conversions by fuel type.

- The gas share of the new housing market increased to record levels in 1993, according to the Bureau of the Census. Gas single-family homes completed registered a 66 percent market share, up from 65 percent in 1992 (see Figure 1). This is an unprecedented level of market share for gas. When both single- and multi-family units are considered, the gas share of new housing completions increased to 64 percent in 1993 from 63 percent in 1992. This is the highest market share any fuel has held. The overall electric share dropped to 31 percent from 32 percent. Total new housing completions (both single- and multi-family) increased from 1.16 million units in 1992 to 1.19 million units in 1993 or 3.1 percent.

- Total natural gas househeating unit additions from new construction numbered 782,654 in 1993, a 26 percent increase from 1992, as reported by survey respondents. This increase is consistent with the rise in single- and multi-family housing completions in 1993 compared with 1992, as reported by the Bureau of the Census. The addition of new natural gas househeating units from conversions in 1993 increased by nearly 5 percent above 1992, reaching over 311,000 units. Total additions from both new construction and conversions were 1,094,091 in 1993, an 19 percent increase from 1992.

- The annual natural gas househeating bill for a single-family home increased in 1993 by 9 percent from $406 to $443. This is due to slightly higher gas prices in 1993 compared with 1992 and a colder winter. Changes ranged from a 14 percent decline in the East South Central division to a 16 percent increase in the Mountain division.

Figure 1



II. United States Housing Market In 1993

New Housing Completions

The U.S. housing market increased 3.1 percent in 1993 from 1992, with new completions totaling 1,194,000.

Natural gas continued to dominate in the new single-family home market, with new gas single-family completions increasing to 681,000 in 1993 from 623,000 in 1992 according to the U.S. Census Bureau (See Figure 1). This 9.3 percent increase is higher than the 7.8 percent increase in all single-family home completions, resulting in an increased gas market share of 66 percent in 1993. **This is the highest level of gas market share of new single-family home completions since statistics became available.** The 1993 electric market share of new home completions remained at 29 percent for the second year in a row. Gas single-family home completions have exceeded electric completions for the eighth consecutive year.

In the multi-family housing arena, gas retained its market share of 52 percent which is significant in light of nearly a 20 percent decrease in the number of multi-family units completed in 1993 compared with 1992. The total number of units completed in 1993 fell to 156,000 from 194,000 in 1992. Market share for electricity grew by one percentage point above 1992, reaching 45 percent in 1993. In 1993, however, natural gas multi-family units reached 81,000, compared with 70,000 electric units.

When both single- and multi-family units are considered, gas househeating market share of new housing increased from 63 percent in 1992 to 64 percent in 1993. **Again, this is the highest level of gas market share since comparative statistics became available.** Electric househeating market share dropped to 31 percent in 1993 from 32 percent in 1992.

Tables 1 and 2 present the regional breakdown of units completed by type of fuel. Gas single-family home completions again outnumbered electric completions in all regions. Also of note is an increase in gas market share in all regions except the South, where market share remained at 50 percent. Market share increased 1 percentage point in the Northeast and Midwest regions and 2 percentage points in the West. In the multi-family sector, gas completions were higher than electric in all regions but the South. However, gas market share still increased by 3 percentage points, rising from 27 percent in 1992 to 30 percent in 1993. There was a notable increase in gas market share in the Northeast and West regions. In the Northeast, builders installed gas heat in 100 percent of the multi-family units completed in 1993, an increase of 30 percentage points with a corresponding 30 percentage point decline in the electric market share. The West region saw large gains in gas market share as well, with an increase of 13 percentage points above 1992 for multi-family units completed with gas heat.

Table 3 shows new housing market share data from 1983-1993. The overall new housing market share of gas and electricity has more than reversed itself from 37 percent gas and 56 percent electricity in 1983 to 64 percent gas and 31 percent electricity in 1993.

Figure 2

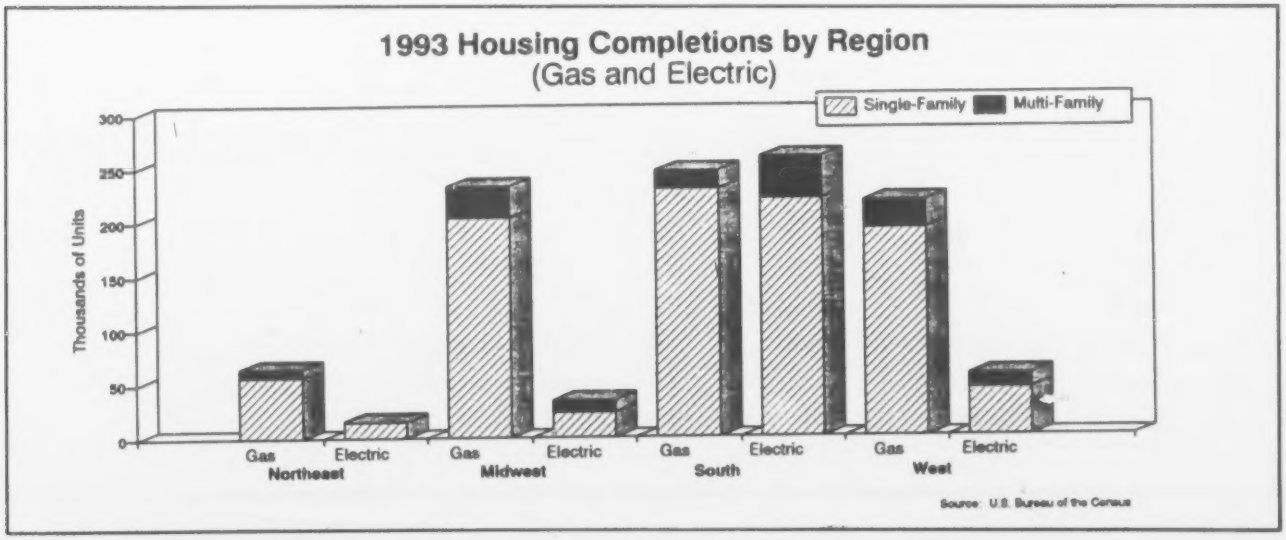


Figure 3

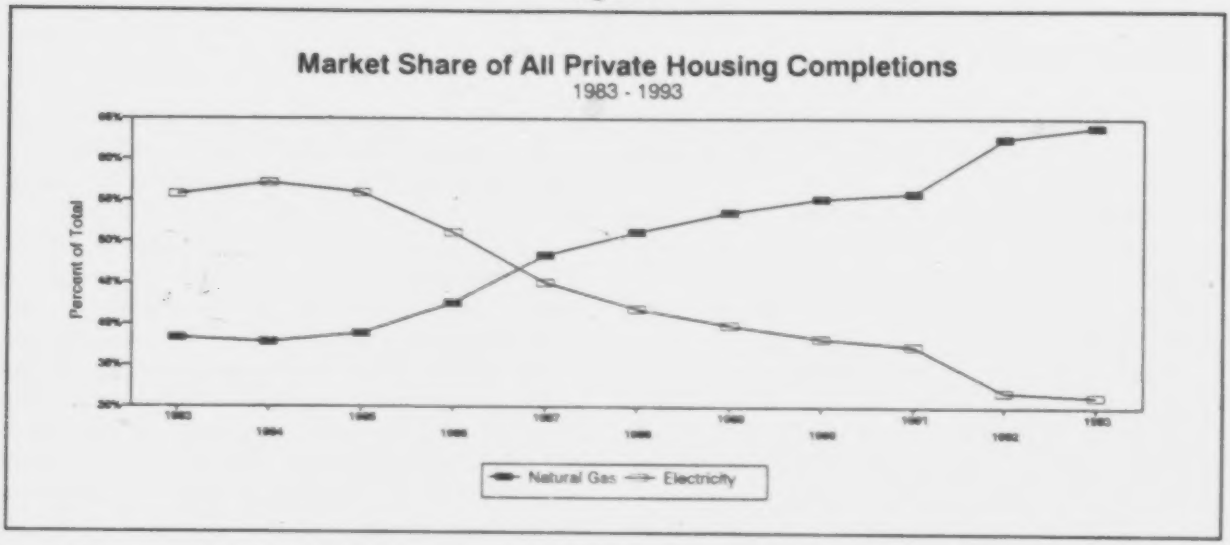


Table 1

1993 PRIVATE HOUSING COMPLETIONS BY HEATING FUEL

(Thousands of Units)

Single-Family	Share	Units	Northeast	Midwest	South	West
Natural Gas[a]	66%	681	57	203	229	192
Electricity	29%	303	16	23	220	44
Oil	3%	35	31	B	B	B
Other	2%	19	B	4	5	10
Subtotal	100%	1,038	104	230	454	246
Multi-Family						
Natural Gas[a]	52%	81	8	30	18	26
Electricity	45%	70	S	12	40	14
Oil	0%	Z	Z	Z	Z	Z
Other	3%	4	Z	Z	1	3
Subtotal	100%	155	8	42	59	43
Combined						
Natural Gas[a]	64%	762	65	233	247	218
Electricity	31%	373	16	35	260	58
Oil	3%	35	31	B/Z	B/Z	B/Z
Other	2%	23	B/Z	4	6	13
Total	100%	1,193	112	272	513	289

[a]Includes liquefied petroleum gas B = Insufficient sample size

Z = Less than 500 units S = Did not meet publication standards

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1993.

Table 2

A COMPARISON OF 1992 & 1993 PRIVATE HOUSING COMPLETIONS
(Percent of Market)

	TOTAL U.S.		NORTHEAST		MIDWEST		SOUTH		WEST	
	1992	1993	1992	1993	1992	1993	1992	1993	1992	1993
Single Family										
*Gas	65%	66%	54%	55%	87%	88%	50%	50%	76%	78%
Electricity	29%	29%	16%	15%	11%	10%	49%	49%	20%	18%
Oil	4%	3%	30%	30%	B	B	B	B	B	B
Other	2%	2%	B	B	2%	2%	1%	1%	5%	4%
Multi Family										
*Gas	52%	52%	70%	100%	86%	71%	27%	30%	47%	60%
Electricity	44%	45%	30%	0%	14%	29%	73%	68%	45%	33%
Oil	1%	0%	B	B	Z	Z	Z	Z	Z	Z
Other	3%	3%	B	B	Z	Z	Z	Z	9%	7%
Combined										
*Gas	63%	64%	56%	58%	87%	86%	47%	48%	70%	75%
Electricity	32%	31%	18%	14%	12%	13%	52%	51%	25%	20%
Oil	3%	3%	26%	28%	B/Z	B/Z	B/Z	B/Z	B/Z	B/Z
Other	2%	2%	B	B	1%	1%	1%	1%	6%	5%

*Includes liquefied petroleum gas
B = Insufficient sample size
Z = Less than 500 units

Table 3

MARKET SHARE OF PRIVATE HOUSING COMPLETIONS BY HEATING FUEL
1980-1993

Single-Family	**1980**	**1985**	**1986**	**1987**	**1988**	**1989**	**1990**	**1991**	**1992**	**1993**
Natural Gas[a]	41%	43%	47%	52%	54%	58%	59%	60%	65%	66%
Electricity	50	49	44	40	37	34	33	32	29	29
Oil	3	3	5	5	6	5	5	4	4	3
Other	5	4	4	3	3	3	3	4	2	2
Multi-Family										
Natural Gas[a]	30%	31%	35%	41%	44%	42%	44%	41%	52%	52%
Electricity	66	67	63	56	53	54	53	55	44	45
Oil	2	1	1	1	4	5	1	1	1	0
Other	1	1	1	2	7	11	2	4	3	3
Combined										
Natural Gas[a]	37%	39%	43%	48%	51%	53%	55%	56%	63%	64%
Electricity	56	56	51	45	42	40	38	37	32	31
Oil	3	2	3	4	4	4	4	4	3	3
Other	4	3	3	3	3	3	3	3	2	2

[a]Includes liquefied petroleum gas

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1993.

Existing Housing

According to the 1990 Census data, 56.7 percent of existing homes use gas (both natural and liquefied petroleum) for househeating purposes (see Table 4). Gas holds the largest market share in the historically cold region of the East North Central and the lowest market share in the warmer South Atlantic division. The only divisions where natural gas does not have the largest market share are in New England, where fuel oil and kerosene heat more homes, and in the South Atlantic, where electricity has a higher market share.

TABLE 4
1990 HOUSE HEATING FUEL MARKET SHARE (Percent Using)

REGION DIVISION STATE	NATURAL AND LP GAS	NATURAL GAS ONLY	ELECTRICITY	FUEL OIL/ KEROSENE	COAL OR COKE	WOOD	SOLAR ENERGY	OTHER FUEL	NO FUEL USED	TOTAL
TOTAL U.S.	56.7	51.0	25.8	12.2	0.4	3.9	0.1	0.4	0.6	100.0
NORTHEAST	46.2	43.9	11.4	38.2	0.9	2.4	0.0	0.6	0.3	100.0
NEW ENGLAND	31.4	28.7	13.0	50.6	0.4	4.0	0.0	0.3	0.3	100.0
CONNECTICUT	28.2	26.3	15.1	54.4	0.3	1.6	0.0	0.2	0.2	100.0
MAINE	3.7	1.8	11.7	69.5	0.7	14.1	0.1	0.2	0.1	100.0
MASSACHUSETTS	40.1	38.0	13.5	44.0	0.3	1.5	0.0	0.3	0.3	100.0
NEW HAMPSHIRE	21.3	15.2	12.4	55.8	0.9	9.0	0.1	0.3	0.2	100.0
RHODE ISLAND	43.0	40.7	7.9	47.0	0.2	1.4	0.0	0.2	0.1	100.0
VERMONT	18.5	8.0	9.1	54.3	0.7	17.0	0.1	0.2	0.2	100.0
MIDDLE ATLANTIC	51.4	49.3	10.9	33.7	1.1	1.9	0.0	0.7	0.4	100.0
NEW JERSEY	59.4	57.5	10.0	29.2	0.1	0.5	0.0	0.4	0.3	100.0
NEW YORK	48.1	45.7	8.5	39.6	0.2	2.0	0.0	1.0	0.5	100.0
PENNSYLVANIA	51.2	49.5	14.8	27.9	2.9	2.5	0.0	0.4	0.2	100.0
MIDWEST	76.5	69.3	12.8	6.2	0.1	3.5	0.0	0.6	0.3	100.0
EAST NORTH CENTRAL	77.2	71.9	12.2	6.5	0.2	3.0	0.0	0.6	0.3	100.0
ILLINOIS	84.6	80.3	11.2	1.8	0.1	1.0	0.0	0.7	0.5	100.0
INDIANA	68.6	63.1	19.3	6.2	0.2	4.2	0.0	0.4	0.2	100.0
MICHIGAN	83.0	76.9	5.4	6.9	0.1	3.9	0.0	0.5	0.2	100.0
OHIO	75.0	68.2	16.8	7.5	0.4	2.5	0.0	0.7	0.2	100.0
WISCONSIN	69.4	61.0	9.3	14.6	0.0	5.9	0.0	0.6	0.2	100.0
WEST NORTH CENTRAL	74.8	63.5	14.0	5.6	0.1	4.7	0.0	0.6	0.2	100.0
IOWA	80.4	65.6	10.5	5.5	0.0	2.9	0.0	0.5	0.2	100.0
KANSAS	84.7	75.9	11.8	0.3	0.0	2.9	0.1	0.2	0.1	100.0
MINNESOTA	71.1	62.9	10.5	11.9	0.1	4.9	0.0	1.2	0.5	100.0
MISSOURI	72.4	60.4	18.1	1.5	0.0	7.6	0.0	0.2	0.1	100.0
NEBRASKA	81.2	70.2	13.6	2.5	0.0	2.1	0.0	0.5	0.1	100.0
NORTH DAKOTA	53.7	39.7	26.2	15.7	1.7	1.2	0.0	0.9	0.6	100.0
SOUTH DAKOTA	63.0	43.0	17.8	13.6	0.2	4.2	0.0	0.8	0.4	100.0
SOUTH	45.1	37.0	42.8	6.9	0.4	4.3	0.0	0.3	0.4	100.0
SOUTH ATLANTIC	33.9	26.8	48.8	12.3	0.3	4.0	0.1	0.2	0.6	100.0
DELAWARE	37.3	30.5	21.8	38.5	0.2	1.7	0.0	0.2	0.2	100.0
DISTRICT OF COLUMBIA	60.5	60.5	20.5	12.5	0.0	0.0	0.1	0.6	0.8	100.0
FLORIDA	14.7	7.5	78.1	4.1	0.0	0.8	0.1	0.1	1.5	100.0
GEORGIA	67.1	53.3	27.2	1.5	0.0	3.8	0.0	0.1	0.2	100.0
MARYLAND	43.4	43.2	29.6	22.1	0.3	1.9	0.0	0.3	0.3	100.0
NORTH CAROLINA	27.1	18.6	42.0	22.5	0.1	7.8	0.1	0.2	0.2	100.0
SOUTH CAROLINA	23.8	24.6	46.9	13.2	0.1	5.7	0.0	0.1	0.2	100.0
VIRGINIA	31.5	28.9	40.1	20.2	0.8	6.7	0.0	0.3	0.3	100.0
WEST VIRGINIA	53.5	50.7	25.3	7.8	4.0	9.0	0.0	0.3	0.1	100.0
EAST SOUTH CENTRAL	58.8	39.0	38.1	2.8	1.2	7.6	0.0	0.2	0.1	100.0
ALABAMA	58.4	42.8	34.6	1.2	0.3	5.3	0.0	0.1	0.1	100.0
KENTUCKY	53.3	45.6	30.0	4.8	3.2	8.2	0.0	0.3	0.2	100.0
MISSISSIPPI	60.9	40.8	30.6	0.5	0.0	7.8	0.0	0.1	0.1	100.0
TENNESSEE	58.5	30.0	50.5	3.8	0.9	9.0	0.0	0.1	0.1	100.0
WEST SOUTH CENTRAL	61.2	53.1	35.5	0.2	0.0	2.8	0.0	0.1	0.2	100.0
ARKANSAS	64.4	52.8	22.7	0.2	0.0	12.5	0.0	0.1	0.1	100.0
LOUISIANA	60.9	55.1	36.2	0.3	0.0	2.3	0.0	0.1	0.2	100.0
OKLAHOMA	74.4	64.4	20.5	0.1	0.0	4.7	0.0	0.2	0.1	100.0
TEXAS	58.2	50.4	40.2	0.1	0.0	1.2	0.0	0.1	0.2	100.0
WEST	43.3	39.8	26.7	2.5	0.2	5.3	0.3	0.3	1.6	100.0
MOUNTAIN	64.0	58.5	27.4	1.5	0.5	5.7	0.3	0.4	0.2	100.0
ARIZONA	44.0	39.5	51.4	0.2	0.2	3.6	0.1	0.1	0.4	100.0
COLORADO	81.8	77.0	12.9	0.3	0.4	3.3	0.3	0.7	0.3	100.0
IDAHO	31.3	28.2	39.8	9.0	1.3	18.0	0.1	0.5	0.1	100.0
MONTANA	61.7	54.2	17.9	4.1	0.8	14.7	0.1	0.5	0.1	100.0
NEVADA	53.7	47.7	39.3	3.7	0.1	2.6	0.1	0.3	0.2	100.0
NEW MEXICO	82.0	70.1	9.1	0.3	0.2	7.6	0.6	0.2	0.1	100.0
UTAH	84.2	81.9	9.5	1.3	1.3	3.2	0.1	0.2	0.1	100.0
WYOMING	72.0	62.9	16.5	0.7	2.2	7.9	0.2	0.4	0.2	100.0
PACIFIC	63.8	60.3	26.5	2.9	0.8	5.2	0.1	0.3	2.0	100.0
ALASKA	44.7	42.8	11.8	32.3	1.7	7.7	0.0	1.3	0.5	100.0
CALIFORNIA	78.3	73.2	19.2	0.3	0.0	3.1	0.1	0.2	0.8	100.0
HAWAII	5.3	3.3	37.9	0.2	0.0	0.5	1.6	0.0	54.5	100.0
OREGON	28.2	24.7	44.6	11.4	0.0	16.9	0.1	0.6	0.2	100.0
WASHINGTON	25.6	22.4	55.1	9.9	0.1	10.6	0.0	0.5	0.2	100.0

Source: U.S. Bureau of the Census

III. Residential Natural Gas Customers in 1993

Total Residential Customers

The total number of residential natural gas customers topped 53 million in 1993, a 2.3 percent increase over 1992 (see Table 5). The West North Central division registered the highest increase where the residential customer count rose 37.7 percent above 1992.

Most utilities define a customer as a single meter. The number of customers reported is expanded, based on the sample of companies responding to the survey, to reflect the universe of customers.

The number of residential customers buying their gas via transportation arrangements, reported by the survey participants, rose 20.4 percent to 22,811 in 1993 compared with 18,939 in 1992. Residential transportation customers were concentrated in New York, Illinois and California. The customers in these 3 states accounted for 96.5 percent of all residential transportation customers. Specifically, 44 percent of the total 22,811 customers were located in New York, 36 percent in Illinois and 17 percent in California.

Househeating Customers

About 49 million customers or 91 percent of all 1993 residential natural gas customers were househeating customers. This represents a 2.6 percentage point increase above 1992 in gas househeating saturation levels.

Natural Gas Househeating Unit Additions

The natural gas househeating unit additions increased 19.2 percent, from 918,113 in 1992 to 1,094,091 in 1993. Of the total additions, 782,654 were from new housing. The remaining 311,437 were added from conversions of existing households to natural gas heat.

Figure 4 shows the relative proportion of new househeating unit additions for each of the nine census divisions in 1993. The unit additions are actual totals, not expanded to reflect the entire potential market. The figure shows the relative role of new housing and conversions to total natural gas unit additions. As shown, conversions play a relatively larger role in the Middle Atlantic, East North Central and South Atlantic regions. The number of new additions was highest in the South Atlantic division, reflecting population growth in that area.

Figure 4

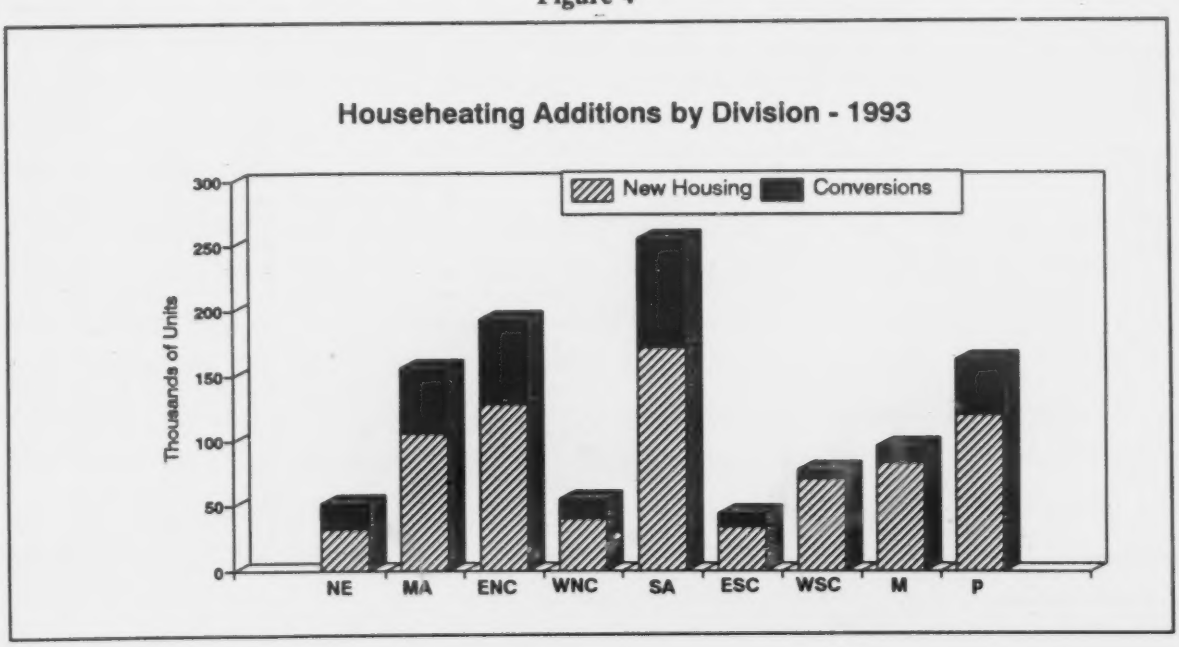


TABLE 5
CUSTOMERS AND UNIT ADDITIONS
(as of December 31, 1993)

Region, Division and State	CUSTOMERS			UNIT ADDITIONS				
	TOTAL	HOUSE HEATING	PERCENT HEATING	TOTAL	NEW HOUSING NUMBER	(%)	CONVERSIONS NUMBER	(%)
UNITED STATES	53,342,919	48,958,765	90.8%	1,094,091	782,654	71.5%	311,437	28.5%
NORTHEAST	9,299,421	7,544,474	81.1%	208,052	137,154	65.9%	70,898	34.1%
NEW ENGLAND	1,917,830	1,474,593	76.9%	52,115	31,794	61.0%	20,321	39.0%
Connecticut	436,767	329,924	75.5%	11,343	6,676	58.9%	4,667	41.1%
Maine	14,552	8,665	59.5%	2,396	1,205	50.3%	1,191	49.7%
Massachusetts	1,170,257	892,142	76.2%	32,019	20,099	62.8%	11,920	37.2%
New Hampshire	71,115	63,539	89.3%	2,135	1,187	55.6%	948	44.4%
Rhode Island	200,383	157,325	78.5%	2,577	1,629	63.2%	948	36.8%
Vermont	24,757	22,998	92.9%	1,645	998	60.7%	647	39.3%
MIDDLE ATLANTIC	7,381,591	6,069,882	82.2%	155,937	105,360	67.6%	50,577	32.4%
New Jersey	2,098,400	1,583,011	75.4%	52,536	36,301	69.1%	16,235	30.9%
New York	2,872,249	2,357,157	82.1%	63,634	39,850	62.6%	23,784	37.4%
Pennsylvania	2,410,942	2,129,714	88.3%	39,767	29,209	73.5%	10,558	26.5%
MIDWEST	17,785,912	17,008,955	95.2%	249,033	168,067	67.5%	80,966	32.5%
EAST NORTH CENTRAL	11,627,691	11,173,618	95.5%	193,392	127,944	66.2%	65,448	33.8%
Illinois	3,422,494	3,101,523	90.1%	62,358	34,106	54.7%	28,252	45.3%
Indiana	1,370,020	1,318,722	96.3%	8,238	5,618	68.2%	2,620	31.8%
Michigan	2,698,178	2,673,853	99.1%	55,801	37,229	66.7%	18,572	33.3%
Ohio	2,896,731	2,917,103	98.3%	59,040	44,846	76.0%	14,194	24.0%
Wisconsin	1,220,268	1,162,416	95.3%	7,955	6,145	77.2%	1,810	22.8%
WEST NORTH CENTRAL	6,158,222	5,835,337	94.8%	55,641	40,123	72.1%	15,518	27.9%
Iowa	752,166	731,822	97.3%	7,187	5,608	78.0%	1,579	22.0%
Kansas	2,271,311	2,252,295	95.0%	9,663	5,408	56.0%	4,255	44.0%
Minnesota	1,068,312	944,301	88.4%	20,870	13,554	64.9%	7,316	35.1%
Missouri	1,277,994	1,252,723	98.0%	10,384	8,927	86.0%	1,457	14.0%
Nebraska	442,544	416,829	94.2%	3,448	3,266	94.7%	182	5.3%
North Dakota	91,928	89,721	97.6%	1,218	877	72.0%	341	28.0%
South Dakota	153,966	147,646	95.9%	2,871	2,483	86.5%	388	13.5%
SOUTH	13,043,715	11,593,445	88.9%	378,214	274,669	72.6%	103,515	27.4%
SOUTH ATLANTIC	4,687,007	3,749,621	80.0%	255,516	170,878	66.9%	84,638	33.1%
Delaware	99,195	80,603	81.3%	6,887	3,630	52.7%	3,257	47.3%
District of Columbia	136,231	112,193	82.4%	1,727	1,302	75.4%	425	24.6%
Florida			%	108,963	55,309	50.8%	53,654	49.2%
Georgia	1,509,160	1,453,078	96.3%	33,350	29,737	89.2%	3,613	10.8%
Maryland	814,872	685,703	84.1%	17,565	16,472	93.8%	1,093	6.2%
North Carolina	1,073,858	688,810	64.1%	46,333	31,371	67.7%	14,962	32.3%
South Carolina			%	7,031	4,322	61.5%	2,709	38.5%
Virginia	693,370	600,040	86.5%	32,760	27,916	85.2%	4,844	14.8%
West Virginia	360,322	129,194	35.9%	900	819	91.0%	81	9.0%
EAST SOUTH CENTRAL	2,642,833	2,532,818	95.8%	44,539	33,466	75.1%	11,073	24.9%
Alabama	720,843	710,592	98.6%	2,056	1,419	69.0%	637	31.0%
Kentucky	661,770	640,601	96.8%	8,574	7,259	84.7%	1,315	15.3%
Mississippi	400,075	398,819	99.7%	7,720	6,246	80.9%	1,474	19.1%
Tennessee	860,145	782,806	91.0%	26,189	18,542	70.8%	7,647	29.2%
WEST SOUTH CENTRAL	5,713,875	5,311,006	92.9%	78,159	70,355	90.0%	7,804	10.0%
Arkansas	523,591	468,956	89.6%	8,644	5,772	66.8%	2,872	33.2%
Louisiana	949,707	897,805	94.5%	3,891	3,673	94.4%	218	5.6%
Oklahoma	848,037	833,828	98.3%	14,023	10,668	76.1%	3,355	23.9%
Texas	3,392,540	3,110,418	91.7%	51,601	50,242	97.4%	1,359	2.6%
WEST	13,213,871	12,880,959	97.5%	258,792	202,734	78.3%	56,058	21.7%
MOUNTAIN	3,393,581	3,267,494	96.3%	96,167	82,866	86.2%	13,301	13.8%
Arizona	683,647	590,207	86.3%	7,083	6,624	93.5%	459	6.5%
Colorado	1,049,691	1,049,427	100.0%	16,444	16,357	99.5%	87	0.5%
Idaho	155,357	154,802	99.6%	18,908	12,750	67.4%	6,158	32.6%
Montana	188,354	180,066	95.6%	1,306	989	75.7%	317	24.3%
Nevada	309,687	301,203	97.3%	25,874	23,833	92.1%	2,041	7.9%
New Mexico	398,525	398,525	100.0%	7,947	6,221	78.3%	1,726	21.7%
Utah	491,640	481,807	98.0%	17,826	15,349	86.1%	2,477	13.9%
Wyoming	116,679	111,457	95.5%	779	743	95.4%	36	4.6%
PACIFIC	9,820,289	9,613,464	97.9%	162,625	119,868	73.7%	42,757	26.3%
Alaska	a	a	a	a	a	a	a	a
California	8,838,190	8,673,301	98.1%	76,144	61,386	80.6%	14,758	19.4%
Hawaii	a	a	a	a	a	a	a	a
Oregon	402,015	380,405	94.6%	36,065	23,686	65.7%	12,379	34.3%
Washington	580,084	559,758	96.5%	50,416	34,796	69.0%	15,620	31.0%

Househeating Conversions

In 1993, 311,437 housing units were converted from another fuel to natural gas (see Tables 5 and 6), a slight increase compared with last year's level of conversions. Table 7 details annual conversions to natural gas from other fuels from 1983-1993. The respondents were asked to provide a breakdown of conversions by fuel type. Based on these data, 107,159 units, or 34.4 percent, were conversions from electricity to natural gas, an 11.9 percent increase relative to 1992. 1993 marked the first year that conversions from electricity exceeded those from fuel oil. In 1983, conversions from electricity to natural gas comprised only 6.9 percent of total conversions. Ten years later, 34.4 percent of all conversions to natural gas were from electricity. Electricity conversions were most prevalent in the South Atlantic, East South Central and Pacific regions.

The majority of fuel oil conversions occurred in the New England and the Middle Atlantic regions where natural gas to oil competition is most fierce. The share of conversions from fuel oil has dropped from 83.2 percent in 1983 as conversions from electricity have grown. Propane conversions decreased to 33,104. Fuel oil and propane accounted for a combined total of 35.1 percent of total conversions, a decrease from 58.2 percent last year. Other (coal, wood, and non-classified) increased to 76,094.

Figure 5 pictorially demonstrates the trend in increasing electricity conversions since 1983. While oil conversions have declined modestly relative to 1983 levels, the conversion of homes from electricity to natural gas has shown significant gains during the same period.

Table 6
HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1993 BY TYPE OF FUEL

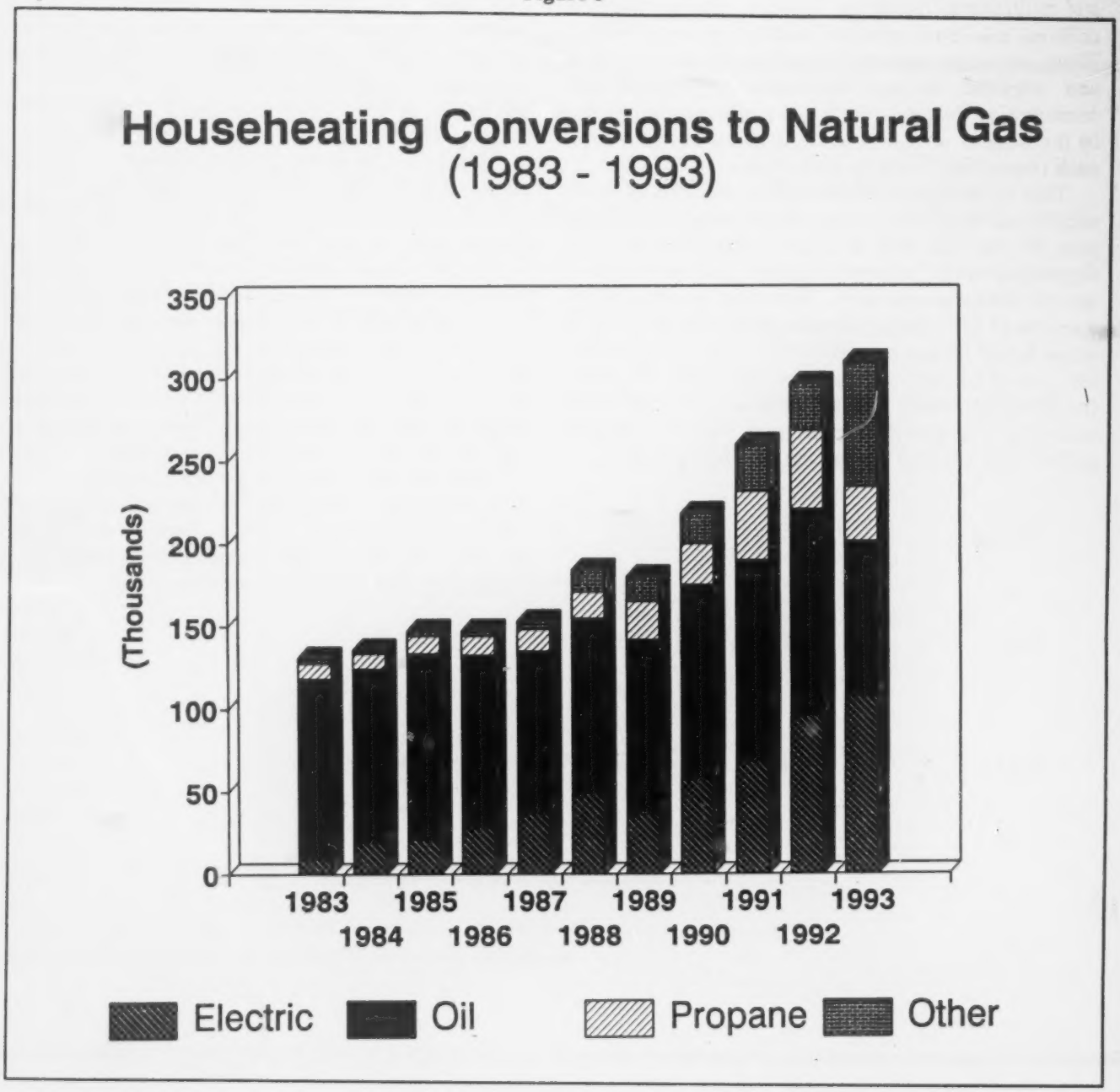
	Electricity		Oil		Propane		Other		TOTAL	
Division	Units	%	Units	%	Units	%	Units	%	Units	%
United States	107,159	34.4%	95,080	30.5%	33,104	10.6%	76,094	24.4%	311,437	100.0%
New England	4,186	20.6%	12,052	59.3%	820	4.0%	3,263	16.1%	20,321	100.0%
Middle Atlantic	3,537	7.0%	40,458	80.0%	1,061	2.1%	5,521	10.9%	50,577	100.0%
East North Central	7,100	10.8%	12,844	19.6%	10,152	15.5%	35,352	54.0%	65,448	100.0%
West North Central	1,484	9.6%	3,395	21.9%	6,161	39.7%	4,478	28.9%	15,518	100.0%
South Atlantic	53,634	63.4%	19,833	23.4%	4,969	5.9%	6,202	7.3%	84,638	100.0%
East South Central	8,083	73.0%	692	6.2%	2,114	19.1%	184	1.7%	11,073	100.0%
West South Central	2,379	30.5%	0	0.0%	2,553	32.7%	2,872	36.8%	7,804	100.0%
Mountain	5,246	39.4%	1,926	14.5%	3,375	25.4%	2,754	20.7%	13,301	100.0%
Pacific	21,510	50.3%	3,880	9.1%	1,899	4.4%	15,468	36.2%	42,757	100.0%

Table 7
HOUSEHEATING CONVERSIONS TO NATURAL GAS BY TYPE OF FUEL (1983 - 1993)

	Electricity		Oil		Propane		Other		TOTAL	
	Units	%	Units	%	Units	%	Units	%	Units	%
1983	9,060	6.9%	109,833	83.2%	9,391	7.1%	3,795	2.9%	132,129	100.0%
1984	18,570	13.6%	106,034	77.5%	9,308	6.8%	2,985	2.2%	136,897	100.0%
1985	20,808	13.9%	113,475	76.0%	11,615	7.8%	3,381	2.3%	149,279	100.0%
1986	27,811	18.7%	104,894	70.6%	11,822	8.0%	3,984	2.7%	148,511	100.0%
1987	36,153	23.4%	99,184	64.2%	13,608	8.8%	5,485	3.6%	154,430	100.0%
1988	48,669	26.3%	106,480	57.5%	15,978	8.6%	14,057	7.6%	185,184	100.0%
1989	36,446	20.1%	105,854	58.4%	23,471	12.9%	15,617	8.6%	181,388	100.0%
1990	56,973	26.0%	118,216	54.0%	25,206	11.5%	18,547	8.5%	218,942	100.0%
1991	68,006	26.0%	122,481	46.8%	42,236	16.1%	29,004	11.1%	261,727	100.0%
1992	95,735	32.2%	125,478	42.2%	47,656	16.0%	28,409	9.6%	297,278	100.0%
1993	107,159	34.4%	95,080	30.5%	33,104	10.6%	76,094	24.4%	311,437	100.0%

Note: Other includes coal, wood, and non-classified conversions.

Figure 5


Househeating Conversions to Natural Gas
(1983 - 1993)
(Thousands)
350
300
250
200
150
100
50
0
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
Electric
Oil
Propane
Other

IV. Residential Natural Gas Consumption

Natural Gas Consumption Per Unit

Respondents to the survey estimated the average annual natural gas consumption for both single-family and multi-family dwellings. Utilities representing 156 different markets around the country were represented. These responses were then used to develop the U.S. and regional average estimates on natural gas consumption per unit. Both categories were weighted by the number of residential natural gas customers for each responding utility in each state.

Due to changes in the reporting methods of some utilities and the difference in survey participation from year to year (as well as annual changes in heating degree day totals), consumption data from year to year are not always comparable. With this caveat in mind, a review of 1993 average consumption data for all U.S. single family homes was 100.5 Mcf. This represents an increase of 2.2 percent compared with 1992. In multi-family homes, there was an increase of 9 percent in estimated unit energy consumption, with the average multi-family gas unit consuming 66.2 Mcf per year.

Nationally, househeating accounted for 71 percent of total natural gas consumption in single-family homes, with base load uses accounting for the remaining 29 percent. Regionally, househeating consumption as a percent of total consumption, for single family dwellings, ranged from 61 percent in the West to 75 percent in the Northeast. In multi-family dwellings, househeating consumption ranged from 41 percent in the West to 73 percent in the Midwest. Base load consumption is that part of total consumption, which is not temperature sensitive and includes gas consumed by clothes dryers, ranges, water heaters and gas lighting.

In single-family dwellings, natural gas consumption for househeating was 71.4 Mcf, while base load consumption was 29.1 Mcf. By comparison, the average multi-family dwelling unit consumed 43.7 Mcf and 22.5 Mcf, respectively, for househeating and base load use. This lower level of consumption is due to comparatively smaller units than single-family homes, as well as the natural insulation of multi-family dwellings.

Table 8 includes weather data for each region in the form of annual heating degree days for calendar year 1993 and the 30-year normal heating degree days weighted by natural gas househeating customers as reported by the survey respondents.

Table 8

1993 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a] BY REGION (Mcf)

Region	Single Family	Multi-Family	Heating Degree Days[b] 1993	Heating Degree Days[b] 30-Year
Northeast				
Heating	96.5	71.0	5,468	5,501
Baseload	32.2	30.0		
Total	128.7	101.0		
Midwest				
Heating	98.7	58.1	5,493	5,453
Baseload	34.1	21.1		
Total	132.8	79.2		
South				
Heating	54.5	37.0	2,977	2,970
Baseload	25.9	21.0		
Total	80.4	58.0		
West				
Heating	38.8	13.7	2,782	2,902
Baseload	24.5	19.6		
Total	63.3	33.3		
U.S. Average				
Heating	71.4	43.7	4,198	4,221
Baseload	29.1	22.5		
Total	100.5	66.2		

[a]Results for 1993 are based on responses from 156 different markets.

bCalendar year heating degree days are weighted by gas househeating customers.
Source: National Oceanic and Atmospheric Administration

Heating Bills

The annual natural gas househeating bill for a single-family home increased in 1993 as shown in Table 9. This is due to slightly higher prices in some regions in 1993 compared with 1992, as well as an increase in the number of heating degree days of 20 percent. In some instances where heating bills increased, it was as a result of the impact on gas rates of higher state taxes. Changes ranged from a 14.0 percent decline in the East South Central division to a 15.7 percent increase in the Mountain division. Nationally, the average natural gas househeating bill increased from $405.91 to $443.36 or 9.2 percent. This data is confined to average space heating costs and therefore, does not include the cost of base load uses such as cooking, clothes drying, water heating or gas lighting.

Table 9

1992 AND 1993 HOUSEHEATING BILLS AND WINTER HEATING DEGREE DAYS BY DIVISION

Division	1992 Gas Heating Bills	1993 Gas Heating Bills	Percent Change	1992 Winter Months Heating Degree Days	1993 Winter Months Heating Degree Days	Percent Change
United States	$405.91	$443.36	9.2%	3,498	4,198	20.0%
New England	$777.04	$859.65	10.6%	4,753	6,390	34.4%
Middle Atlantic	$671.77	$731.68	8.9%	4,387	5,238	19.4%
East North Central	$519.01	$546.68	5.3%	4,602	5,289	14.9%
West North Central	$455.12	$409.11	-10.1%	4,648	6,332	36.2%
South Atlantic	$440.73	$437.49	-0.7%	2,798	3,648	30.4%
East South Central	$321.85	$276.84	-14.0%	2,762	3,151	14.1%
West South Central	$288.43	$265.75	-7.9%	1,861	2,388	28.3%
Mountain	$281.08	$325.14	15.7%	4,159	5,204	25.1%
Pacific	$169.64	$186.32	9.8%	1,958	1,788	-8.7%

Note: Both heating bills and degree days are weighted by gas househeating customers. Degree days are for the months of January, February, March, November and December for each year, weighted by househeating customers. Source: National Oceanic and Atmospheric Administration.

Appendix 1

1993 Househeating Customer and Consumption Data by Company

Appendix 1 -- Customers and Consumption

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1993	HOUSEHEATING CUSTOMERS YEAR-END 1993	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1993	30-YEAR NORMAL
NEW ENGLAND								
CONNECTICUT								
	CONNECTICUT NATURAL GAS C	125,728	99,337	N/A	N/A	44.0%	6,395	6,162
	SOUTHERN CONNECTICUT GAS	139,178	103,561	86.69	26.98	33.0%	5,447	5,537
	YANKEE GAS SERVICES CO.	157,364	116,075	89.77	38.95	26.0%	6,450	6,200
	TOTAL CONNECTICUT	422,270	318,973					
MAINE								
	NORTHERN UTILITIES	14,552	8,865	78.20	33.80	10.0%	8,008	7,980
	TOTAL MAINE	14,552	8,865					
MASSACHUSETTS								
	BOSTON GAS CO.*	472,073	292,803	106.00	36.00	40.0%	5,634	5,634
	FALL RIVER GAS COMPANY	43,196	40,598	75.00	30.00	66.0%	6,149	5,979
	COLONIAL GAS CO. - LOWELL	115,021	109,307	90.00	50.00	52.5%	6,668	6,340
	ESSEX COUNTY GAS CO.	35,262	27,826	96.10	27.40	49.0%	6,786	6,738
	BAY STATE GAS COMPANY	220,479	183,042	92.70	33.80	46.0%	7,003	6,862
	COMMONWEALTH GAS CO.	211,877	181,137	124.00	31.00	40.0%	6,857	6,577
	BERKSHIRE GAS COMPANY	27,794	21,353	96.82	37.08	7.0%	7,320	7,362
	FITCHBURG GAS & ELECTRIC	15,340	14,033	86.09	N/A	N/A	6,696	6,714
	WESTFIELD GAS & ELECTRIC LIG	6,639	5,034	99.6	41	N/A	6436	6411
	TOTAL MASSACHUSETTS	1,147,683	874,933					
NEW HAMPSHIRE								
	ENERGYNORTH, Inc.	56,638	50,555	101.90	26.20	27.0%	7,498	7,518
	NORTHERN UTILITIES	14,477	12,984	78.80	23.70	17.0%	7,335	7,158
	TOTAL NEW HAMPSHIRE	71,115	63,539					
RHODE ISLAND								
	VALLEY GAS CO	49,829	40,237	75.00	20.00	40.0%	6,387	6,386
	PROVIDENCE GAS CO.	142,800	111,000	120.00	30.00	40.0%	5,716	5,897
	TOTAL RHODE ISLAND	192,629	151,237					
VERMONT								
	VERMONT GAS SYSTEMS	22,272	25,890	89.86	27.94	N/A	7,561	7,808
	TOTAL VERMONT	22,272	25,890					
	TOTAL NEW ENGLAND	1,870,521	1,438,037					
MIDDLE ATLANTIC								
NEW JERSEY								
	SOUTH JERSEY GAS CO.	218,484	193,826	75.79	27.01	46.0%	4,953	4,850
	NEW JERSEY NATURAL GAS CO	309,282	261,007	82.70	32.40	54.0%	4,862	4,801
	ELIZABETHTOWN GAS CO.	216,634	155,378	N/A	N/A	49.0%	4,889	4,976
	PUBLIC SERVICE ELECTRIC & GA	1,354,000	953,000	100.98	20.40	65.0%	4,567	4,924
	TOTAL NEW JERSEY	2,098,400	1,583,011					
NEW YORK								
	LONG ISLAND LIGHTING CO.	400,856	233,882	115.00	45.00	26.0%	4,899	5,029
	BROOKLYN UNION GAS CO.	1,117,472	723,452	95.00	43.00	53.3%	4,798	4,824
	CENTRAL HUDSON GAS & ELEC	51,642	39,333	80.00	50.00	17.6%	6,516	6,321
	ROCHESTER GAS & ELECTRIC	250,326	231,937	93.80	32.20	80.0%	6,928	6,782
	ST. LAWRENCE GAS CO.	11,987	11,213	121.00	25.00	79.0%	8,401	8,284
	NIAGARA MOHAWK POWER CO.	457,498	380,427	136.00	46.00	82.7%	6,991	6,845
	CONSOLIDATED EDISON CO.	N/A	174,785	N/A	N/A	56.1%	N/A	N/A
	ORANGE & ROCKLAND UTILITIES	98,569	93,704	99.71	40.85	57.0%	5,791	5,497
	NATIONAL FUEL GAS DIST.	483,919	468,424	95.41	29.84	89.1%	6,773	6,710
	TOTAL NEW YORK	2,872,249	2,357,157					
PENNSYLVANIA								
	PIKE COUNTY LIGHT & POWER	982	925	85.00	39.30	29.0%	5,791	5,497
	PHILADELPHIA GAS WORKS	504,488	418,418	94.00	40.00	62.0%	4,738	4,572
	PEOPLES NATURAL GAS	316,588	310,043	107.00	35.00	98.3%	5,628	5,968
	COLUMBIA GAS OF PA	328,476	316,955	97.70	30.80	63.0%	5,572	5,745
	NORTH PENN GAS CO.	30,739	30,542	88.20	34.40	N/A	6,936	7,198
	PENNSYLVANIA GAS & WATER	125,291	109,184	123.00	33.00	40.0%	6,171	6,291
	EQUITABLE RESOURCES*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PHILADELPHIA ELECTRIC CO.	337,073	277,500	88.90	27.70	37.6%	4,810	4,955
	NATIONAL FUEL GAS DIST.	193,857	191,905	101.28	28.45	86.1%	6,294	6,474
	UGI CORPORATION	213,310	155,931	84.80	25.30	14.0%	5,770	5,507
	TOTAL PENNSYLVANIA	2,050,604	1,811,408					
	TOTAL MIDDLE ATLANTIC	7,021,253	5,751,576					
	TOTAL NORTHEAST	8,891,774	7,189,613					
MIDWEST/EAST NORTH CENTRAL								
ILLINOIS								
	PEOPLES GAS LIGHT & COKE	795,558	594,482	136.00	35.00	92.0%	6,880	6,536
	NORTH SHORE GAS CO.	119,554	116,054	140.00	39.00	92.0%	6,880	6,536
	ILLINOIS GAS COMPANY	9,007	8,985	144.00	28.00	82.0%	4,532	5,037
	WISCONSIN POWER & LIGHT CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECTRIC	59,192	57,265	84.00	36.80	86.0%	6,500	6,474

Appendix 1 -- Customers and Consumption

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1993	HOUSEHEATING CUSTOMERS YEAR-END 1993	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1993	30-YEAR NORMAL
	CENTRAL ILLINOIS LIGHT CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	20,123	18,110	N/A	N/A	79.0%	5,884	5,884
	ILLINOIS POWER CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN ILLINOIS GAS CO.	1,629,209	1,576,685	117.00	34.00	88.0%	6,172	6,178
	SOUTH BELOIT GAS, WATER & E	4,240	4,145	84.70	22.90	N/A	7,269	7,185
	TOTAL ILLINOIS	2,636,883	2,375,706					
INDIANA								
	LAWRENCEBURG GAS CO.	4,995	4,370	100.00	40.00	71.0%	5,155	5,248
	INDIANA NATURAL GAS CORP.	5,197	5,168	N/A	N/A	N/A	6,817	N/A
	INDIANA GAS COMPANY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PEOPLES GAS & POWER COMPA	2,072	2,068	97.30	57.70	N/A	5,548	5,380
	MIDWEST NATURAL GAS CORP	8,132	8,857	93.10	54.80	N/A	5,548	5,380
	NORTHERN INDIANA FUEL & LIG	25,726	25,124	111.10	N/A	77.0%	6,182	6,320
	OHIO VALLEY GAS CORP. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN INDIANA PUBLIC SER	572,240	547,196	124.00	41.00	80.0%	6,283	6,200
	CITIZENS GAS & COKE UTILITY	226,478	220,955	90.00	30.00	74.0%	5,555	5,577
	KOKOMO GAS & FUEL CO. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL INDIANA	845,400	813,746					
MICHIGAN								
	MICHIGAN CONSOLIDATED GAS	1,043,403	1,017,583	110.00	46.00	84.0%	6,675	6,828
	MICHIGAN GAS UTILITIES CO. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CONSUMERS POWER CO.	1,306,184	1,260,836	82.00	43.00	88.0%	N/A	N/A
	BATTLE CREEK GAS COMPANY	785	30,853	127.00	43.00	N/A	6,350	6,203
	MICHIGAN GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MICHIGAN	2,350,362	2,329,172					
OHIO								
	DAYTON POWER & LIGHT	261,212	256,319	N/A	N/A	N/A	5,855	5,700
	EAST OHIO GAS CO.	987,589	979,281	N/A	N/A	84.0%	6,256	6,236
	OHIO GAS CO. *	33,103	29,100	90.00	35.00	85.0%	6,187	6,280
	CINCINNATI GAS & ELECTRIC	307,993	287,887	97.56	39.02	56.0%	5,155	5,348
	COLUMBIA GAS OF OHIO	1,133,561	1,124,956	96.50	30.90	86.0%	5,819	5,882
	WEST OHIO GAS CO.	54,208	52,639	58.00	25.00	N/A	6,060	5,580
	TOTAL OHIO	2,777,656	2,730,982					
WISCONSIN								
	WISCONSIN NATURAL GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MADISON GAS & ELECTRIC	84,394	79,905	82.70	25.60	85.6%	7,351	7,842
	WISCONSIN PUBLIC SERVICE*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WISCONSIN FUEL & LIGHT CO.	40,777	39,562	88.70	25.50	80.0%	8,208	7,920
	WISCONSIN POWER & LIGHT CO.	118,728	111,262	90.13	22.90	N/A	7,359	7,185
	WISCONSIN SOUTHERN GAS CO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WISCONSIN GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL WISCONSIN	241,867	230,429					
	TOTAL EAST NORTH CENTRAL	6,852,186	6,480,015					
WEST NORTH COENTRAL								
IOWA								
	MIDWEST GAS, DIV. OF MIDWEST	252,785	244,403	87.30	27.50	N/A	7,314	7,054
	CEDAR FALLS UTILITIES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	4,350	4,308	N/A	N/A	91.0%	5,884	5,854
	PEOPLES NATURAL GAS (UTILIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECTRIC	161,184	157,329	79.80	33.50	87.0%	6,864	6,513
	IES UTILITIES, INC.	148,367	146,274	92.00	23.00	91.0%	7,451	7,170
	TOTAL IOWA	567,686	552,312					
KANSAS								
	PEOPLES NATURAL GAS (UTILIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	KPL GAS SERVICE *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	KANSAS PUBLIC SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	66,656	63,323	N/A	N/A	95.0%	5,717	5,283
	ARKANSAS LOUISIANA GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	22,836	21,700	99.30	32.30	N/A	N/A	N/A
	MIDWEST ENERGY, INC.	9,868	9,352	91.84	30.82	90.0%	6,201	5,300
	TOTAL KANSAS	99,362	94,375					
MINNESOTA								
	MINNEGASCO, INC. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MIDWEST GAS, DIV. OF MIDWEST	N/A	N/A	89.80	30.80	N/A	7,314	7,054
	NORTHERN STATES POWER CO.	357,278	326,439	112.52	15.37	97.0%	8,043	7,832
	NORTHERN MINNESOTA UTILITIE	24,939	23,992	90.00	25.00	70.1%	9,559	9,577
	CITY OF DULUTH	23,002	18,644	140.00	45.00	83.6%	9,503	9,802
	PEOPLES NATURAL GAS (UTILIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AUSTIN UTILITIES*	9,725	N/A	120.00	30.00	73.0%	8,294	7,700
	TOTAL MINNESOTA	414,942	368,775					
MISSOURI								
	KPL GAS SERCICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Appendix 1 -- Customers and Consumption

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1993	HOUSEHEATING CUSTOMERS YEAR-END 1993	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1993	30-YEAR NORMAL
	UNITED CITIES GAS CO.	12,443	12,318	N/A	N/A	78.0%	5,884	5,884
	ASSOCIATED NATURAL GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ST. JOSEPH LIGHT & POWER CO	5,516	5,456	N/A	N/A	98.0%	6,502	6,383
	CITY OF SPRINGFIELD	60,040	60,040	61.00	27.00	87.0%	4,898	4,838
	MISSOURI PUBLIC SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LACLEDE GAS CO.	569,572	555,976	74.20	39.70	76.0%	4,889	4,758
	UNION ELECTRIC COMPANY *	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MISSOURI	646,571	633,798					
NEBRASKA								
	PEOPLES NATURAL GAS (UTILIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	METROPOLITAN UTILITIES DIST.	143,838	141,140	76.00	29.00	84.6%	6,842	6,464
	MIDWEST GAS, DIV. OF MIDWEST	3,744	3,503	75.30	30.00	N/A	7,314	7,084
	MINNEGASCO, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	HASTINGS UTILITIES	8,798	N/A	109.41	N/A	N/A	6,527	5,944
	K N ENERGY, INC.	77,983	73,800	85.28	25.48	N/A	N/A	N/A
	NORTHWESTERN PUBLIC SERVI	34,121	33,946	79.00	39.00	N/A	6,342	6,552
	TOTAL NEBRASKA	267,881	252,409					
NORTH DAKOTA								
	MONTANA-DAKOTA UTILITIES CO	88,779	85,175	127.40	2.90	97.9%	9,144	8,988
	TOTAL NORTH DAKOTA	88,779	85,175					
SOUTH DAKOTA								
	MONTANA-DAKOTA UTILITIES CO	30,129	28,822	105.10	2.50	85.1%	7,878	7,301
	NORTHWESTERN PUBLIC SERVI	30,327	28,085	89.00	30.00	N/A	8,248	7,883
	MIDWEST GAS, DIV. OF MIDWEST	49,979	48,213	88.40	28.70	N/A	7,314	7,084
	MINNEGASCO, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL SOUTH DAKOTA	110,433	105,800					
	TOTAL WEST NORTH CENTRAL	2,173,733	2,070,732					
	TOTAL MIDWEST	11,025,831	10,550,747					
SOUTH ATLANTIC								
DELAWARE								
	DELMARVA POWER & LIGHT CO.	88,027	89,466	96.55	24.64	40.6%	4,624	4,914
	CHESAPEAKE UTILITIES CORP.	13,168	11,137	88.00	28.00	N/A	4,624	4,271
	TOTAL DELAWARE	88,195	80,603					
DISTRICT OF COLUMBIA								
	WASHINGTON GAS	133,259	108,748	76.00	36.00	82.0%	4,114	3,980
	TOTAL WASHINGTON	133,259	108,748					
FLORIDA								
	PEOPLES GAS SYSTEM, INC.	185,988	79,188	N/A	N/A		2,664	3,039
	CHESAPEAKE UTILITIES CORPO	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL FLORIDA	185,988	79,188					
GEORGIA								
	ATLANTA GAS LIGHT COMPANY	1,176,454	1,136,906	53.80	31.90	88.0%	2,848	2,991
	UNITED CITIES GAS CO.	66,357	59,721	N/A	N/A	91.0%	2,796	3,021
	TOTAL GEORGIA	1,242,811	1,196,627					
MARYLAND								
	WASHINGTON GAS	269,887	265,211	74.00	29.00	80.0%	4,114	3,980
	COLUMBIA GAS OF MD	27,438	24,745	82.10	24.80	75.0%	5,227	5,068
	BALTIMORE GAS & ELECTRIC	401,195	373,678	82.50	36.90	36.6%	5,081	4,901
	CHESAPEAKE UTILITIES CORP.	7,758	6,432	90.00	3.00	85.0%	4,913	
	TOTAL MARYLAND	796,258	670,064					
NORTH CAROLINA								
	PUBLIC SERVICE OF NC*	226,725	209,650	70.00	25.00	32.0%	3,481	3,410
	CITY OF WILSON	8,215	8,215	68.20	3.81	30.0%	N/A	N/A
	PIEDMONT NATURAL GAS CO.	239,967	59,561	7.48	19.10	50.0%	3,648	3,648
	NORTH CAROLINA NATURAL GA	84,398	81,332	58.00	25.00	N/A	2,982	3,195
	TOTAL NORTH CAROLINA	559,305	358,758					
SOUTH CAROLINA								
	SOUTH CAROLINA ELECTRIC & G	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PIEDMONT NATURAL GAS CO.	68,277	24,708	7.33	15.08	48.0%	3,591	3,378
	UNITED CITIES GAS CO.	4,292	3,991	N/A	N/A	34.0%	3,511	3,339
	TOTAL SOUTH CAROLINA	72,569	28,697					
VIRGINIA								
	WASHINGTON GAS	241,631	234,189	75.00	20.00	58.0%	4,114	3,980
	DEPT. OF PUBLIC UTILITIES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ROANOKE GAS COMPANY	38,998	N/A	100.60	2.50	N/A	4,423	4,229
	CITY OF DANVILLE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	COMMONWEALTH GAS SERVICE	131,888	127,713	75.90	21.90	70.0%	4,063	3,980
	VIRGINIA NATURAL GAS	169,395	152,879	51.10	20.58	30.0%	3,378	3,348
	CITY OF CHARLOTTESVILLE	12,200	N/A	85.00	20.00	N/A	5,910	4,567
	UNITED CITIES GAS CO.	12,893	11,803	N/A	N/A	38.0%	4,278	4,356
	TOTAL VIRGINIA	606,004	526,164					
WEST VIRGINIA								

Appendix 1 -- Customers and Consumption

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1992	HOUSEHEATING CUSTOMERS YEAR-END 1993	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1993	30-YEAR NORMAL
	MOUNTAINEER GAS CO.	194,170	N/A	N/A	N/A	N/A	4,482	4,897
	HOPE GAS CO.*	193,372	103,099	77.00	25.00	97.0%	5,532	5,094
	TOTAL WEST VIRGINIA	387,542	103,099					
	TOTAL SOUTH ATLANTIC	2,984,939	3,152,946					
EAST SOUTH CENTRAL								
ALABAMA								
	HUNTSVILLE UTILITIES GAS DEP	28,675	28,675	86.34	N/A	N/A	3,417	3,300
	MOBILE GAS SERVICE CORP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DECATUR UTILITIES	8,410	7,720	54.00	12.00	28.0%	3,252	3,100
	ALABAMA GAS CORP.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CITY OF FLORENCE	11,437	11,437	N/A	N/A	35.0%	2,586	N/A
	TOTAL ALABAMA	48,522	47,832					
KENTUCKY								
	DELTA NATURAL GAS CO.	3,943	3,904	80.00	33.00	96.0%	4,798	4,814
	UNION LIGHT, HEAT & POWER	63,444	59,524	97.18	36.87	59.0%	5,155	5,248
	LOUISVILLE GAS & ELECTRIC	337,423	232,813	N/A	N/A	N/A	4,466	4,514
	COLUMBIA GAS OF KY	116,245	115,624	87.20	24.60	82.0%	4,663	4,814
	WESTERN KENTUCKY GAS CO.*	145,617	136,880	73.00	23.00	36.0%	4,200	4,700
	TOTAL KENTUCKY	666,672	548,545					
MISSISSIPPI								
	MISSISSIPPI VALLEY GAS CO.	215,496	215,496	49.80	29.20	79.0%	2,817	2,784
	ENTEX, INC.	103,105	102,105	65.00	28.00	74.0%	2,810	2,452
	TOTAL MISSISSIPPI	318,601	317,601					
TENNESSEE								
	KNOXVILLE UTILITIES BOARD	38,988	N/A	N/A	N/A	N/A	3,792	3,729
	CHATTANOOGA GAS COMPANY	38,967	37,797	18.00	N/A	N/A	3,213	3,583
	MIDDLE TENNESSEE NATURAL G	27,888	26,744	56.00	13.00	70.0%	3,818	3,788
	NASHVILLE GAS CO.	86,471	86,471	85.00	30.00	40.0%	3,877	3,758
	MEMPHIS LIGHT, GAS & WATER	254,729	254,729	85.00	N/A	79.0%	N/A	3,227
	UNITED CITIES GAS CO.	70,705	63,634	N/A	N/A	50.0%	4,276	4,388
	TOTAL TENNESSEE	515,748	469,375					
	TOTAL EAST SOUTH CENTRAL	1,449,543	1,383,353					
WEST SOUTH CENTRAL								
ARKANSAS								
	ARKANSAS LOUISIANA GAS CO.	376,330	333,428	53.79	32.41	57.0%	3,321	3,156
	ARKANSAS WESTERN GAS CO.	81,932	77,016	66.40	30.10	62.0%	4,929	N/A
	ASSOCIATED NATURAL GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL ARKANSAS	458,262	410,444					
LOUISIANA								
	ARKANSAS LOUISIANA GAS CO.	124,275	110,108	45.81	27.49	64.0%	2,500	2,264
	ENTEX,DIVISION OF ARKLA, INC.	117,350	102,350	58.00	34.00	90.0%	1,097	N/A
	LOUISIANA GAS SERVICE CO.	228,524	225,500	57.10	26.70	N/A	1,618	1,458
	NEW ORLEANS PUBLIC SERVICE	144,956	143,531	28.00	36.00	84.0%	1,587	1,513
	SOUTH COAST GAS COMPANY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TRANS LOUISIANA GAS COMPAN	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL LOUISIANA	615,105	581,489					
OKLAHOMA								
	KPL GAS SERVICE							
	OKLAHOMA NATURAL GAS CO.	817,229	616,949	83.60	31.00	89.0%	3,480	3,410
	ARKANSAS LOUISIANA GAS CO.	103,478	91,682	51.85	31.25	54.0%	4,068	3,859
	TOTAL OKLAHOMA	720,707	708,631					
TEXAS								
	CITY PUBLIC SERVICE	372,304	247,552	29.26	24.27	59.0%	1,574	1,614
	ENTEX, DIVISION OF ARKLA, INC	1,035,398	972,260	31.00	28.00	75.0%	1,525	1,485
	ARKANSAS LOUISIANA GAS CO.	40,654	36,019	45.30	27.30	60.0%	2,500	2,264
	LONE STAR GAS CO.	1,164,090	1,047,681	51.00	23.00	47.4%	2,508	2,407
	TOTAL TEXAS	2,912,446	2,303,512					
	TOTAL WEST SOUTH CENTRAL	4,306,520	4,004,076					
	TOTAL SOUTH	8,721,002	8,540,375					
MOUNTAIN								
ARIZONA								
	SOUTHWEST GAS CORP.	237,144	203,944	28.00	18.00	80.0%	1,478	1,526
	CITIZENS UTILITIES CO.	5,762	5,762	36.80	26.80	64.0%	1,921	2,067
	SOUTHWEST GAS CORP.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL ARIZONA	242,906	209,706					
COLORADO								
	CITY OF COLORADO SPRINGS	111,873	111,873	61.90	31.50	82.0%	6,625	6,344
	PUBLIC SERVICE CO OF COLOR	797,069	797,069	75.80	26.50	87.2%	6,104	6,020
	PEOPLES NATURAL GAS (UTILIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	5,348	5,100	89.00	27.00	N/A	N/A	N/A

Appendix 1 -- Customers and Consumption

DIVISION / STATE	COMPANY	RESIDENTIAL CUSTOMERS YEAR-END 1993	HOUSEHEATING CUSTOMERS YEAR-END 1993	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	BASELOAD	GAS-HTG MKT-SHARE PERCENT	HEATING DEGREE DAYS 1993	30-YEAR NORMAL
	GREELEY GAS COMPANY	82,485	82,485	117	30	99.0%	6,557	6,308
	TOTAL COLORADO	976,773	976,527					
IDAHO								
	WASHINGTON WATER POWER	26,855	26,300	57.00	16.00	46.0%	6,134	6,882
	INTERMOUNTAIN GAS CO.	128,502	128,502	89.50	30.70	44.0%	6,840	6,484
	TOTAL IDAHO	155,357	154,802					
MONTANA								
	MONTANA-DAKOTA UTILITIES CO	57,470	54,941	109.40	2.50	95.6%	7,168	7,184
	GREAT FALLS GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MONTANA	57,470	54,941					
NEVADA								
	SOUTHWEST GAS CORP.	215,319	209,315	28.20	23.90	54.0%	2,050	3,100
	SIERRA PACIFIC POWER COMPA	76,857	74,857	55.83	27.08	71.0%	5,462	5,592
	SOUTHWEST GAS CORP.*	N/A	N/A	85.00	23.00	84.0%	5,370	N/A
	TOTAL NEVADA	292,176	284,172					
NEW MEXICO								
	GAS COMPANY OF NEW MEXICO	337,097	337,097	60.00	25.00	87.0%	4,182	4,477
	TOTAL NEW MEXICO	337,097	337,097					
UTAH								
	MOUNTAIN FUEL SUPPLY CO.	491,840	481,807	81.37	38.72	85.5%	6,073	5,803
	TOTAL UTAH	491,840	481,807					
WYOMING								
	MONTANA-DAKOTA UTILITIES CO	11,214	10,160	120.50	2.90	90.6%	7,992	7,904
	CODY	4,082	4,070	143.00	13.00	98.0%	8,338	7,431
	K N ENERGY, INC.	8,802	8,400	85.05	26.25	N/A	N/A	N/A
	WYOMING GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MOUNTAIN FUEL SUPPLY CO.	18,023	17,663	68.39	35.64	83.8%	9,486	8,598
	TOTAL WYOMING	42,161	40,293					
	TOTAL MOUNTAIN	2,595,600	2,539,345					
PACIFIC								
CALIFORNIA								
	SAN DIEGO GAS & ELECTRIC	662,210	659,953	17.00	23.00	61.0%	848	1,049
	CITY OF LONG BEACH GAS DEPT	141,263	133,847	36.00	18.00	77.0%	1,248	1,147
	SOUTHERN CALIFORNIA GAS CO	4,459,250	4,370,065	21.80	25.02	66.4%	1,255	1,515
	SOUTHWEST GAS CORP.	84,811	83,903	26.30	20.50	78.0%	3,344	N/A
	PACIFIC GAS AND ELECTRIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL CALIFORNIA	5,347,534	5,247,768					
OREGON								
	NORTHWEST NATURAL GAS CO.	314,335	300,196	68.00	24.00	34.6%	4,452	4,313
	WASHINGTON WATER POWER C	65,338	64,000	44.00	17.00	54.0%	3,853	4,798
	CASCADE NATURAL GAS CORP	22,342	16,209	60.00	21.00	70.0%	6,099	5,675
	TOTAL OREGON	402,015	380,405					
WASHINGTON								
	WASHINGTON NATURAL GAS CO	399,589	395,191	78.10	23.00	52.0%	4,691	4,791
	CASCADE NATURAL GAS CORP.	66,099	74,468	60.00	21.00	70.0%	6,099	5,675
	WASHINGTON WATER POWER	77,574	76,000	65.00	20.00	49.0%	6,134	6,882
	NORTHWEST NATURAL GAS CO.	14,822	14,099	71.00	24.00	14.7%	4,452	4,313
	TOTAL WASHINGTON	560,084	559,758					
	TOTAL PACIFIC	6,329,633	6,187,931					

Appendix 2

1993 Competitive Fuel Prices by Company

Appendix 2 -- Competitive Fuel Prices ($/MMBtu)

DIVISION STATE	COMPANY	PRINCIPAL CITY SERVED	NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
NEW ENGLAND							
CONNECTICUT							
	CONNECTICUT NATURAL GAS CORP.	HARTFORD	$8.31	$22.08	$9.68	$6.78	N/A
	SOUTHERN CONNECTICUT GAS CO.	BRIDGEPORT	$9.58	$34.35	$12.28	$6.42	$630.49
	YANKEE GAS SERVICES CO.	WATERBURY	$8.99	$28.74	$14.01	$7.21	$607.30
MAINE							
	NORTHERN UTILITIES	PORTLAND	$7.22	$34.29	$13.72	$5.81	$564.60
MASSACHUSETTS							
	BOSTON GAS CO.*	BOSTON	$8.82	$28.31	$13.98	$6.45	$634.92
	FALL RIVER GAS COMPANY	FALL RIVER	$7.50	$35.17	$12.04	$6.13	$562.50
	COLONIAL GAS CO. - LOWELL	LOWELL	$8.61	$29.31	$12.04	$5.77	$775.32
	ESSEX COUNTY GAS CO.	HAVERHILL	$8.43	N/A	$13.69	$6.13	$810.12
	BAY STATE GAS COMPANY	BROCKTON	$8.10	$33.41	$12.64	$6.19	$750.87
	COMMONWEALTH GAS CO.	WORCESTER	$9.01	N/A	$3.41	$1.87	$1,117.24
	BERKSHIRE GAS COMPANY	PITTSFIELD	$9.58	$35.17	$10.95	$6.16	$927.44
	FITCHBURG GAS & ELECTRIC	FITCHBURG	$8.12	$34.98	$4.82	$5.26	$699.01
	WESTFIELD GAS & ELECTRIC LIGHT DEPT	WESTFIELD	$8.27	$30.74	$10.95	$3.21	$823.54
NEW HAMPSHIRE							
	ENERGYNORTH, Inc.	MANCHESTER	$7.67	$35.79	$11.98	$6.19	$781.27
	NORTHERN UTILITIES	PORTSMOUTH	$8.88	$37.51	$12.02	$5.57	$542.93
RHODE ISLAND							
	VALLEY GAS CO	PAWTUCKET	$7.30	$32.24	$13.58	$7.14	$547.50
	PROVIDENCE GAS CO.	PROVIDENCE	$8.33	$28.34	$4.11	$6.77	$999.72
VERMONT							
	VERMONT GAS SYSTEMS	BURLINGTON	$8.51	$27.84	$12.20	$6.21	$454.56
MIDDLE ATLANTIC							
NEW JERSEY							
	SOUTH JERSEY GAS CO.	ATLANTIC CITY	$7.00	$35.17	$6.57	$4.25	$530.53
	NEW JERSEY NATURAL GAS COMPANY	ASBURY PARK	$7.34	$32.24	$13.69	$7.71	$607.02
	ELIZABETHTOWN GAS CO.	ELIZABETH	$7.46	$33.22	$10.95	$7.14	N/A
	PUBLIC SERVICE ELECTRIC & GAS	NEWARK	$7.00	$32.24	$15.88	$7.14	$706.86
NEW YORK							
	LONG ISLAND LIGHTING CO.	LONG ISLAND	$8.01	$48.89	$13.69	$6.29	$921.15
	BROOKLYN UNION GAS CO.	NEW YORK CITY	$8.30	$22.01	N/A	$6.72	$788.50
	CENTRAL HUDSON GAS & ELECTRIC	POUGHKEEPSIE	$8.86	$31.36	$17.33	$6.01	$532.80
	ROCHESTER GAS & ELECTRIC	ROCHESTER	$7.24	$30.19	$0.00	N/A	$679.11
	ST. LAWRENCE GAS CO.	MASSENA	$4.57	$11.14	$10.95	$5.70	$552.97
	NIAGARA MOHAWK POWER CO.	SYRACUSE	$9.05	$30.77	$11.72	$6.56	$1,231.15
	CONSOLIDATED EDISON CO.	NEW YORK CITY	$8.39	$32.33	N/A	N/A	N/A
	ORANGE & ROCKLAND UTILITIES	CLARKSTOWN/NEW-CITY	$7.68	$37.02	$13.95	$6.70	$763.51
	NATIONAL FUEL GAS DIST.	BUFFALO	$7.21	$27.05	$12.44	$6.85	$687.91
PENNSYLVANIA							
	PIKE COUNTY LIGHT & POWER	MILFORD	$5.81	$29.82	$12.70	$6.70	$493.60
	PHILADELPHIA GAS WORKS	PHILADELPHIA	$7.82	$19.90	$13.14	$6.49	$735.06
	PEOPLES NATURAL GAS	PITTSBURGH	$8.56	$40.74	$9.95	$5.96	$701.92
	COLUMBIA GAS OF PA	PITTSBURGH	$5.57	$14.52	N/A	N/A	$544.19
	NORTH PENN GAS CO.	RURAL AREAS	$8.55	$25.79	$10.84	$6.06	$577.96
	PENNSYLVANIA GAS & WATER	SCRANTON	$8.12	$22.96	$10.73	$5.62	$752.78
	EQUITABLE RESOURCES*	PITTSBURGH	N/A	N/A	N/A	N/A	N/A
	PHILADELPHIA ELECTRIC CO.	SUBURBAN PHILA.	$7.07	$19.90	$14.01	$5.92	$628.52
	NATIONAL FUEL GAS DIST.	ERIE	$5.67	$20.37	$10.61	$6.41	$594.53
	UGI CORPORATION	READING	$7.61	$25.64	$13.03	$6.85	$645.33
MIDWEST/EAST NORTH CENTRAL							
ILLINOIS							
	PEOPLES GAS LIGHT & COKE	CHICAGO	$5.52	$14.85	N/A	$7.50	$750.72
	NORTH SHORE GAS CO.	WAUKEGAN	$5.56	$14.85	N/A	$7.50	$776.40
	ILLINOIS GAS COMPANY	OLNEY-LAWRENCEVILLE	$5.09	$20.52	$7.91	$4.92	$732.67
	WISCONSIN POWER & LIGHT CO.*	SOUTH BELOIT	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECTRIC	ROCK ISLAND	$5.82	$27.88	$8.05	$3.46	$488.54
	CENTRAL ILLINOIS LIGHT CO.	QUINCY	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	VIRDEN	$4.68	$20.52	$5.15	$4.18	N/A
	ILLINOIS POWER CO.	DECATUR	N/A	N/A	N/A	N/A	N/A
	NORTHERN ILLINOIS GAS CO.	ROCKFORD	$4.75	$13.48	$8.19	$5.70	$556.75
	SOUTH BELOIT GAS, WATER & ELEC	SOUTH BELOIT	N/A	$19.27	$8.38	$8.03	N/A
INDIANA							
	LAWRENCEBURG GAS CO.	LAWRENCEBURG	$8.68	$16.01	$11.41	$6.30	$668.25
	INDIANA NATURAL GAS CORP.	PAOLI	$8.99	N/A	N/A	N/A	N/A
	INDIANA GAS COMPANY	INDIANAPOLIS	N/A	N/A	N/A	N/A	N/A
	PEOPLES GAS & POWER COMPANY *	BLOOMFIELD	$6.64	N/A	N/A	N/A	$648.07
	MIDWEST NATURAL GAS CORP	SCOTTSBURG	$6.35	N/A	N/A	N/A	$580.92
	NORTHERN INDIANA FUEL & LIGHT	AUBURN	$5.51	$13.07	$8.98	$5.34	$612.16
	OHIO VALLEY GAS CORP. *	PORTLAND	N/A	N/A	N/A	N/A	N/A
	NORTHERN INDIANA PUBLIC SERV.	FORT WAYNE	$8.23	$16.11	$8.53	$5.88	$772.52
	CITIZENS GAS & COKE UTILITY	INDIANAPOLIS	$5.94	$9.98	$7.23	$6.12	$534.90
	KOKOMO GAS & FUEL CO. *	KOKOMO	N/A	N/A	N/A	N/A	N/A

Appendix 2 -- Competitive Fuel Prices ($/MMBtu)

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
MICHIGAN							
	MICHIGAN CONSOLIDATED GAS	DETROIT	$5.62	$27.26	$9.20	$7.07	$615.20
	MICHIGAN GAS UTILITIES CO. *	MONROE	N/A	N/A	N/A	N/A	N/A
	CONSUMERS POWER CO.	LANSING	$4.68	$20.52	$9.31	$6.49	$382.12
	BATTLE CREEK GAS COMPANY	BATTLE CREEK	$4.60	$21.96	$9.31	$6.49	$384.20
	MICHIGAN GAS CO.	HOLLAND	N/A	N/A	N/A	N/A	N/A
OHIO							
	DAYTON POWER & LIGHT	DAYTON	$5.53	$17.26	$10.95	$8.20	N/A
	EAST OHIO GAS CO.	CLEVELAND	$4.22	N/A	N/A	N/A	N/A
	OHIO GAS CO. *	BRYAN	$5.84	$23.45	$8.32	$6.06	$467.20
	CINCINNATI GAS & ELECTRIC	CINCINNATI	$5.85	$14.54	$11.41	$8.36	$570.73
	COLUMBIA GAS OF OHIO	COLUMBUS	$4.96	$10.07	N/A	N/A	$479.57
	WEST OHIO GAS CO.	LIMA	$5.44	$19.05	$6.87	$5.05	$299.09
WISCONSIN							
	WISCONSIN NATURAL GAS CO.	RACINE	N/A	N/A	N/A	N/A	N/A
	MADISON GAS & ELECTRIC	MADISON	$6.25	$19.40	$6.21	$6.20	$516.66
	WISCONSIN PUBLIC SERVICE*	GREEN BAY	N/A	N/A	N/A	N/A	N/A
	WISCONSIN FUEL & LIGHT CO.	WAUSAU	$6.64	$18.05	$9.19	$6.04	$589.18
	WISCONSIN POWER & LIGHT CO.*	JANESVILLE	N/A	$19.27	$6.36	$6.03	N/A
	WISCONSIN SOUTHERN GAS CO.	LAKE GENEVA	N/A	N/A	N/A	N/A	N/A
	WISCONSIN GAS CO.	MILWAUKEE	N/A	N/A	N/A	N/A	N/A
WEST NORTH CCENTRAL							
IOWA							
	MIDWEST GAS, DIV. OF MIDWEST POWER	DES MOINES	$5.69	$20.81	$6.79	N/A	$496.74
	CEDAR FALLS UTILITIES	CEDAR FALLS	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	KEOKUK	$5.73	N/A	$5.15	$4.18	N/A
	PEOPLES NATURAL GAS (UTILICORP)	COUNCIL BLUFFS	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECTRIC	DAVENPORT	$5.56	$26.76	$6.05	$3.46	$443.61
	IES UTILITIES, INC.	MARSHALLTOWN	$5.46	$23.51	$6.57	$4.83	$502.32
KANSAS							
	PEOPLES NATURAL GAS (UTILICORP)	GARDEN CITY	N/A	N/A	N/A	N/A	N/A
	KPL GAS SERVICE *	WICHITA	N/A	N/A	N/A	N/A	N/A
	KANSAS PUBLIC SERVICE	LAWRENCE	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	JOHNSON COUNTY	$4.21	$17.56	$0.93	$7.21	N/A
	ARKANSAS LOUISIANA GAS CO.	WICHITA	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	COLBY	N/A	N/A	N/A	N/A	N/A
	MIDWEST ENERGY, INC.	HAYS	$3.90	$20.37	$7.88	N/A	$358.04
MINNESOTA							
	MINNEGASCO, INC. *	MINNEAPOLIS	N/A	N/A	N/A	N/A	N/A
	MIDWEST GAS, DIV. OF MIDWEST POWER	COON RAPIDS	N/A	N/A	N/A	N/A	N/A
	NORTHERN STATES POWER CO.	ST. PAUL	$5.01	$18.73	$8.09	$6.81	$563.30
	NORTHERN MINNESOTA UTILITIES	CLOQUET	$5.92	$9.96	$8.76	$5.62	$532.80
	CITY OF DULUTH	DULUTH	N/A	$16.85	$9.31	$6.42	N/A
	PEOPLES NATURAL GAS (UTILICORP)	ROCHESTER	N/A	N/A	N/A	N/A	N/A
	AUSTIN UTILITIES*	AUSTIN	$4.75	$22.24	$8.78	$5.90	$570.00
MISSOURI							
	KPL GAS SERCICE	KANSAS CITY	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	HANNIBAL	$4.21	$20.52	$5.15	$4.18	N/A
	ASSOCIATED NATURAL GAS CO.	SIKESTON	N/A	N/A	N/A	N/A	N/A
	ST. JOSEPH LIGHT & POWER CO.	MARYVILLE	$6.50	$12.02	$7.15	N/A	N/A
	CITY OF SPRINGFIELD	SPRINGFIELD	$5.34	$15.11	$7.22	$4.46	$432.22
	MISSOURI PUBLIC SERVICE	VARIOUS TOWNSHIPS	N/A	N/A	N/A	N/A	N/A
	LACLEDE GAS CO.	ST. LOUIS	$5.03	$12.81	$9.41	$7.03	$373.23
	UNION ELECTRIC COMPANY *		N/A	N/A	N/A	N/A	N/A
NEBRASKA							
	PEOPLES NATURAL GAS (UTILICORP)	BELLEVUE	N/A	N/A	N/A	N/A	N/A
	METROPOLITAN UTILITIES DIST.	OMAHA	$5.09	$11.81	$7.32	$5.91	$387.07
	MIDWEST GAS, DIV. OF MIDWEST POWER	SOUTH SIOUX CITY	$5.73	$20.81	$6.79	N/A	$431.47
	MINNEGASCO, INC.	LINCOLN	N/A	N/A	N/A	N/A	N/A
	HASTINGS UTILITIES	HASTINGS	$6.57	$18.87	N/A	N/A	$937.66
	K N ENERGY, INC.	SCOTTSBLUFF	N/A	N/A	N/A	N/A	N/A
	NORTHWESTERN PUBLIC SERVICE	GRAND ISLAND	$4.42	$17.56	$5.24	$4.90	$348.18
NORTH DAKOTA							
	MONTANA-DAKOTA UTILITIES CO.	BISMARCK	$5.57	$23.71	$6.26	$5.79	$709.30
SOUTH DAKOTA							
	MONTANA-DAKOTA UTILITIES CO.	RAPID CITY	$5.87	$21.07	$7.80	$5.90	$617.30
	NORTHWESTERN PUBLIC SERVICE	ABERDEEN	$5.29	$25.87	$7.01	$5.56	$470.81
	MIDWEST GAS, DIV. OF MIDWEST POWER	YANKTON	$5.25	$20.81	$6.79	N/A	$364.36
	MINNEGASCO, INC.	SIOUX FALLS	N/A	N/A	N/A	N/A	N/A
SOUTH ATLANTIC							
DELAWARE							
	DELMARVA POWER & LIGHT CO.	WILMINGTON	$6.87	$16.35	$11.72	$6.92	$676.75
	CHESAPEAKE UTILITIES CORP.	DOVER	$7.92	$24.03	$13.69	$6.49	$784.08
DISTRICT OF COLUMBIA							
	WASHINGTON GAS	WASHINGTON	$6.32	$17.94	$13.36	$7.64	$632.32

Appendix 2 -- Competitive Fuel Prices ($/MMBtu)

DIVISION / STATE	COMPANY	PRINCIPAL CITY SERVED	NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
FLORIDA							
	PEOPLES GAS SYSTEM, INC.	MIAMI	28.92	$23.71	$18.07	N/A	N/A
	CHESAPEAKE UTILITIES CORPORATION	WINTER HAVEN	N/A	N/A	N/A	N/A	N/A
GEORGIA							
	ATLANTA GAS LIGHT COMPANY	ATLANTA	$7.03	$22.86	$10.81	$6.93	$376.81
	UNITED CITIES GAS CO.	GAINESVILLE, COLUMBUS	$5.05	$17.58	$5.38	$4.04	N/A
MARYLAND							
	WASHINGTON GAS	HYATTSVILLE	$7.22	$23.18	$13.38	$7.84	$534.28
	COLUMBIA GAS OF MD	HAGERSTOWN	$6.24	$21.86	N/A	N/A	$574.70
	BALTIMORE GAS & ELECTRIC	BALTIMORE	$6.20	$27.11	$12.28	$7.21	$511.50
	CHESAPEAKE UTILITIES CORP.	SALISBURY	N/A	$24.91	$13.91	$6.99	N/A
NORTH CAROLINA							
	PUBLIC SERVICE OF NC*	RALEIGH	$7.02	$20.08	$10.84	$5.98	$491.40
	CITY OF WILSON	WILSON	$5.95	$23.89	$10.40	$6.85	$393.59
	PIEDMONT NATURAL GAS CO.	CHARLOTTE	$5.83	$21.14	$11.93	$6.63	$43.64
	NORTH CAROLINA NATURAL GAS	FAYETTEVILLE	$5.85	$21.98	$10.95	$6.13	$316.80
SOUTH CAROLINA							
	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	N/A	N/A	N/A	N/A	N/A
	PIEDMONT NATURAL GAS CO.	GREENVILLE	$6.17	$24.52	$11.93	$6.63	$45.16
	UNITED CITIES GAS CO.	GAFFNEY	$4.87	$21.98	$5.47	$4.04	N/A
VIRGINIA							
	WASHINGTON GAS	FAIRFAX	$7.34	$27.90	$13.38	$7.84	$550.50
	DEPT. OF PUBLIC UTILITIES	RICHMOND	N/A	N/A	N/A	N/A	N/A
	ROANOKE GAS COMPANY	ROANOKE	$6.00	$18.94	$12.48	$6.77	$605.10
	CITY OF DANVILLE	DANVILLE	N/A	N/A	N/A	N/A	N/A
	COMMONWEALTH GAS SERVICES	PORTSMOUTH	$6.88	$17.68	N/A	N/A	$521.50
	VIRGINIA NATURAL GAS	NORFOLK	$6.65	$26.67	$15.22	$5.62	$442.12
	CITY OF CHARLOTTESVILLE	CHARLOTTESVILLE	N/A	$20.52	$11.39	$6.78	N/A
	UNITED CITIES GAS CO.	ABINGDON, BRISTOL	$5.08	$18.12	$5.47	$4.04	N/A
WEST VIRGINIA							
	MOUNTAINEER GAS CO.	CHARLESTON	$5.50	$16.73	N/A	N/A	N/A
	HOPE GAS CO.*	PARKERSBURG	$5.94	$18.39	$11.88	$7.64	$457.03
EAST SOUTH CENTRAL							
ALABAMA							
	HUNTSVILLE UTILITIES GAS DEPT.	HUNTSVILLE	$6.30	$15.65	$10.84	$6.03	$418.02
	MOBILE GAS SERVICE CORP	MOBILE	N/A	N/A	N/A	N/A	N/A
	DECATUR UTILITIES	DECATUR	$5.38	$14.53	$10.51	$0.00	$290.34
	ALABAMA GAS CORP.	BIRMINGHAM	N/A	N/A	N/A	N/A	N/A
	CITY OF FLORENCE	FLORENCE	$7.63	$15.58	$9.20	$5.62	N/A
KENTUCKY							
	DELTA NATURAL GAS CO.	NICHOLASVILLE	$5.98	$17.29	$9.85	$7.21	$476.80
	UNION LIGHT, HEAT & POWER	COVINGTON	$6.65	$13.63	$11.49	$6.36	$646.55
	LOUISVILLE GAS & ELECTRIC	LOUISVILLE	$4.28	N/A	N/A	N/A	N/A
	COLUMBIA GAS OF KY	LEXINGTON	$4.96	$11.49	N/A	N/A	$432.51
	WESTERN KENTUCKY GAS CO.*	OWENSBORO	$4.37	$16.41	$9.31	N/A	$319.01
MISSISSIPPI							
	MISSISSIPPI VALLEY GAS CO.	JACKSON	$4.71	$24.77	$10.84	N/A	$234.56
	ENTEX, INC.	GULFPORT	$5.57	$18.76	$9.74	$7.57	$362.05
TENNESSEE							
	KNOXVILLE UTILITIES BOARD	KNOXVILLE	N/A	N/A	N/A	N/A	N/A
	CHATTANOOGA GAS COMPANY	CHATTANOOGA	$6.47	$16.30	$10.40	$5.77	$103.52
	MIDDLE TENNESSEE NATURAL GAS	SMITHVILLE	$6.90	$17.70	$11.50	$5.41	$386.40
	NASHVILLE GAS CO.	NASHVILLE	$6.50	$15.24	$9.85	$5.05	$552.50
	MEMPHIS LIGHT, GAS & WATER	MEMPHIS	N/A	N/A	$10.73	N/A	N/A
	UNITED CITIES GAS CO.	BRISTOL	$5.62	$18.12	$5.58	$4.04	N/A
WEST SOUTH CENTRAL							
ARKANSAS							
	ARKANSAS LOUISIANA GAS CO.	LITTLE ROCK	$5.43	$14.15	$10.51	N/A	$292.27
	ARKANSAS WESTERN GAS CO.	FAYETTEVILLE	$5.03	$17.58	$9.31	N/A	$333.99
	ASSOCIATED NATURAL GAS CO.	BLYTHEVILLE	N/A	N/A	N/A	N/A	N/A
LOUISIANA							
	ARKANSAS LOUISIANA GAS CO.	SHREVEPORT	$6.94	$11.06	$10.29	N/A	$316.62
	ENTEX,DIVISION OF ARKLA, INC.	LAKE CHARLES	$5.02	$24.33	$13.69	$8.80	$261.12
	LOUISIANA GAS SERVICE CO.	HARVEY	$6.31	$22.01	$9.84	N/A	$360.30
	NEW ORLEANS PUBLIC SERVICE	NEW ORLEANS	$5.61	$21.10	$13.69	$7.93	$157.08
	SOUTH COAST GAS COMPANY	RACELAND	N/A	N/A	N/A	N/A	N/A
	TRANS LOUISIANA GAS COMPANY	LAFAYETTE	N/A	N/A	N/A	N/A	N/A
OKLAHOMA							
	KPL GAS SERVICE	BARTLESVILLE	N/A	N/A	N/A	N/A	N/A
	OKLAHOMA NATURAL GAS CO.	OKLAHOMA CITY	$5.03	$11.14	$6.90	N/A	$319.91
	ARKANSAS LOUISIANA GAS CO.	LAWTON	$5.89	$11.25	$10.73	N/A	$305.55
TEXAS							
	CITY PUBLIC SERVICE	SAN ANTONIO	$5.41	$18.55	$10.28	N/A	$152.79
	ENTEX, DIVISION OF ARKLA, INC	HOUSTON	$5.62	$24.91	$10.07	N/A	$174.22
	ARKANSAS LOUISIANA GAS CO.	TEXARKANA	$5.24	$11.06	$10.29	N/A	$237.36

Appendix 2 -- Competitive Fuel Prices ($/MMBtu)

DIVISION STATE	COMPANY	PRINCIPAL CITY SERVED	NATURAL GAS	ELECTRICITY	PROPANE	FUEL OIL	GAS HTG BILL
	LONE STAR GAS CO.	DALLAS	$6.22	$24.41	$8.54	N/A	$317.22
MOUNTAIN							
ARIZONA							
	SOUTHWEST GAS CORP.	TUCSON	$7.25	$22.49	$12.04	N/A	$203.00
	CITIZENS UTILITIES CO.	NOGALES	$7.39	$23.71	$11.39	N/A	$270.47
	SOUTHWEST GAS CORP.	PHOENIX	N/A	N/A	N/A	N/A	N/A
COLORADO							
	CITY OF COLORADO SPRINGS	COLORADO SPRINGS	$4.92	$17.97	N/A	N/A	$304.49
	PUBLIC SERVICE CO OF COLORADO	DENVER	$4.61	$21.60	$4.27	$3.03	$348.44
	PEOPLES NATURAL GAS (UTILICORP)	FOUNTAIN	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	YUMA	N/A	N/A	N/A	N/A	N/A
	GREELEY GAS COMPANY	GREELEY	$4.48	$17.29	$7.98	$6.27	$321.92
IDAHO							
	WASHINGTON WATER POWER	COEUR d'ALENE	$4.64	$16.12	$12.04	$7.28	$294.48
	INTERMOUNTAIN GAS CO.	BOISE	$5.20	$13.92	$10.85	$6.99	$381.40
MONTANA							
	MONTANA-DAKOTA UTILITIES CO.	BILLINGS	$5.24	$19.34	$7.38	$5.90	$672.93
	GREAT FALLS GAS CO.	GREAT FALLS	N/A	N/A	N/A	N/A	N/A
NEVADA							
	SOUTHWEST GAS CORP.	LAS VEGAS	$4.25	$18.48	$13.03	N/A	$119.85
	SIERRA PACIFIC POWER COMPANY	RENO	$5.60	$26.73	$12.58	$7.57	$312.64
	SOUTHWEST GAS CORP.*	CARSON CITY	$5.89	$25.40	$13.14	$8.99	$362.53
NEW MEXICO							
	GAS COMPANY OF NEW MEXICO	ALBUQUERQUE	$5.27	$27.23	$9.85	N/A	$316.20
UTAH							
	MOUNTAIN FUEL SUPPLY CO.	SALT LAKE CITY	$4.65	$17.88	$0.00	$4.04	$378.21
WYOMING							
	MONTANA-DAKOTA UTILITIES CO.	SHERIDAN	$5.47	$20.96	$7.38	$5.90	$659.27
	CODY	CODY	$3.85	$14.36	$8.75	N/A	$550.06
	K N ENERGY, INC.	DOUGLAS	N/A	N/A	N/A	N/A	N/A
	WYOMING GAS CO.	WORLAND	N/A	N/A	N/A	N/A	N/A
	MOUNTAIN FUEL SUPPLY CO.	ROCK SPRINGS	$4.50	$10.81	N/A	N/A	$367.40
PACIFIC							
CALIFORNIA							
	SAN DIEGO GAS & ELECTRIC	SAN DIEGO	$8.05	$33.53	$14.78	N/A	$102.86
	CITY OF LONG BEACH GAS DEPT.	LONG BEACH	$8.70	$42.50	$0.00	N/A	$254.80
	SOUTHERN CALIFORNIA GAS CO.	LOS ANGELES	$7.03	$0.00	$0.00	N/A	$151.85
	SOUTHWEST GAS CORP.	VICTORVILLE	$8.84	$41.03	$13.89	N/A	$232.49
	PACIFIC GAS AND ELECTRIC	SAN FRANCISCO	N/A	N/A	N/A	N/A	N/A
OREGON							
	NORTHWEST NATURAL GAS CO.	PORTLAND	$6.99	$14.92	$11.93	$7.43	$475.52
	WASHINGTON WATER POWER CO.	MEDFORD	$4.98	$20.52	$11.08	$7.93	$218.24
	CASCADE NATURAL GAS CORP	BEND	$8.13	$17.58	$16.42	$7.93	$367.95
WASHINGTON							
	WASHINGTON NATURAL GAS CO.	SEATTLE	$5.22	$20.11	$8.07	$3.99	$407.84
	CASCADE NATURAL GAS CORP.	BELLINGHAM	$4.76	$17.58	$16.42	$10.82	$285.40
	WASHINGTON WATER POWER	SPOKANE	$3.30	$16.12	$11.08	$7.28	$214.50
	NORTHWEST NATURAL GAS CO.	VANCOUVER	$6.46	$12.31	$11.93	$7.86	$468.87

Appendix 3

1993 Additions from New Construction and Conversions

NOTE: Appendix 3 includes projections of 1994 additions from new construction, conversions and losses as reported by the responding companies.

Appendix 3 -- Additions from New Construction and Conversions

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1993	1994 Forecast	TOTAL CONVERSIONS TO GAS 1993	1994 Forecast	LESS TOTAL LOSSES 1993	1994 Forecast	NET ADDITIONS 1993	1994 Forecast
NEW ENGLAND									
CONNECTICUT									
	CONNECTICUT NATURAL GA	704	900	2,567	3,300	N/A	N/A	3,271	4,200
	SOUTHERN CONNECTICUT	449	N/A	1,301	N/A	1,288	N/A	562	N/A
	YANKEE GAS SERVICES CO.	856	2,580	709	1,200	N/A	N/A	1,565	3,780
	TOTAL CONNECTICUT	2,009	3,480	4,867	4,500	1,288	N/A	5,388	7,980
MAINE									
	NORTHERN UTILITIES	14	10	1,191	1,090	205	200	1,000	900
	TOTAL MAINE	14	10	1,191	1,090	205	200	1,000	900
MASSACHUSETTS									
	BOSTON GAS CO.*	1,444	1,516	3,487	3,682	N/A	N/A	4,931	5,178
	FALL RIVER GAS COMPANY	239	175	162	170	54	20	347	325
	COLONIAL GAS CO. - LOWEL	1,739	1,815	2,527	2,950	N/A	N/A	4,266	4,765
	ESSEX COUNTY GAS CO.	512	500	318	300	637	89	(7)	711
	BAY STATE GAS COMPANY	2,715	3,000	3,290	3,000	1,205	1,000	4,800	5,000
	COMMONWEALTH GAS CO.	1,365	1,366	1,566	1,715	N/A	N/A	2,931	3,083
	BERKSHIRE GAS COMPANY	159	125	533	595	150	160	542	560
	FITCHBURG GAS AND ELEC	6	N/A	15	N/A	N/A	N/A	21	N/A
	WESTFIELD GAS & ELECTRI	N/A	N/A	22	N/A	N/A	N/A	22	N/A
	TOTAL MASSACHUSETTS	8,179	8,499	11,920	12,382	2,246	1,269	17,853	19,622
NEW HAMPSHIRE									
	ENERGYNORTH, Inc.	43	N/A	374	N/A	79	82	336	(82)
	NORTHERN UTILITIES	196	250	574	450	N/A	N/A	770	700
	TOTAL NEW HAMPSHIRE	239	250	948	450	79	82	1,106	618
RHODE ISLAND									
	VALLEY GAS CO	186	200	416	430	32	36	572	594
	PROVIDENCE GAS CO.	495	1,000	530	1,100	N/A	500	1,025	1,600
	TOTAL RHODE ISLAND	681	1,200	946	1,530	32	536	1,597	2,194
VERMONT									
	VERMONT GAS SYSTEMS	351	350	647	625	25	25	973	950
	TOTAL VERMONT	351	350	647	625	25	25	973	950
TOTAL NEW ENGLAND		11,473	13,789	20,321	20,587	3,875	2,112	27,919	32,264
MIDDLE ATLANTIC									
NEW JERSEY									
	SOUTH JERSEY GAS CO.	4,679	4,500	1,445	3,000	14	1,870	6,307	5,630
	NEW JERSEY NATURAL GAS	5,605	5,400	4,177	4,750	N/A	N/A	9,782	10,150
	ELIZABETHTOWN GAS CO.	1,585	2,093	2,498	2,499	N/A	N/A	4,081	4,592
	PUBLIC SERVICE ELECTRIC	8,000	10,000	8,117	9,000	100	N/A	16,017	19,000
	TOTAL NEW JERSEY	20,068	21,993	16,235	19,249	114	1,870	36,187	39,372
NEW YORK									
	LONG ISLAND LIGHTING CO.	2,121	1,660	4,331	4,200	404	280	6,048	5,600
	BROOKLYN UNION GAS CO.	1,615	3,200	11,747	9,900	N/A	N/A	13,362	13,100
	CENTRAL HUDSON GAS & E	435	300	690	435	N/A	N/A	1,125	735
	ROCHESTER GAS & ELECTRI	2,068	2,130	2,261	2,220	508	498	3,841	3,852
	ST. LAWRENCE GAS CO.	78	40	227	387	9	N/A	296	427
	NIAGARA MOHAWK POWER	4,756	10,095	1,479	1,200	3,700	3,700	2,537	7,595
	CONSOLIDATED EDISON CO	1,673	1,982	2,031	2,086	N/A	N/A	3,704	4,048
	ORANGE & ROCKLAND UTILI	678	N/A	321	N/A	N/A	N/A	1,199	N/A
	NATIONAL FUEL GAS DIST.	2,440	N/A	677	N/A	N/A	N/A	3,117	N/A
	TOTAL NEW YORK	16,066	19,367	23,764	20,428	4,621	4,458	35,229	35,357
PENNSYLVANIA									
	PIKE COUNTY LIGHT & POW	42	N/A	N/A	N/A	N/A	N/A	42	N/A
	PHILADELPHIA GAS WORKS	763	1,150	1,275	1,245	N/A	N/A	2,036	2,395
	PEOPLES NATURAL GAS	2,388	2,200	785	N/A	N/A	N/A	3,183	2,200
	COLUMBIA GAS OF PA	3,991	3,451	971	889	1,180	503	3,472	3,837
	NORTH PENN GAS CO.	339	359	129	136	N/A	N/A	468	495
	PENNSYLVANIA GAS & WAT	703	780	2,081	2,120	400	400	2,384	2,500
	EQUITABLE RESOURCES*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PECO ENERGY COMPANY	6,015	5,495	2,275	2,140	367	300	7,923	7,335
	NATIONAL FUEL GAS DIST.	1,050	N/A	390	N/A	N/A	N/A	N/A	N/A
	UGI CORPORATION	3,660	4,000	2,662	2,850	802	805	5,530	5,845
	TOTAL PENNSYLVANIA	18,651	17,435	10,558	9,180	2,729	2,008	25,040	24,607
	TOTAL MIDDLE ATLANTIC	54,783	58,615	50,577	48,857	7,464	8,336	96,456	99,336
	TOTAL NORTHEAST	66,256	72,604	70,898	69,444	11,339	10,448	124,375	131,600
MIDWEST/EAST NORTH CENTRAL									
ILLINOIS									
	PEOPLES GAS LIGHT & COK	2,918	3,471	N/A	N/A	1,100	1,100	1,818	2,371
	NORTH SHORE GAS CO.	2,419	2,578	N/A	N/A	N/A	N/A	2,419	2,578
	ILLINOIS GAS COMPANY	70	50	119	83	27	28	162	105
	WISCONSIN POWER & LIGHT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECT	317	300	12	N/A	130	65	199	235
	CENTRAL ILLINOIS LIGHT CO		N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	50	50	73	73	N/A	N/A	123	123
	ILLINOIS POWER CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN ILLINOIS GAS C	N/A	N/A	28,000	N/A	N/A	N/A	28,000	N/A

Appendix 3 -- Additions from New Construction and Conversions

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1993	ADDITIONS FROM NEW CONSTRUCTION 1994 Forecast	TOTAL CONVERSIONS TO GAS 1993	TOTAL CONVERSIONS TO GAS 1994 Forecast	LESS TOTAL LOSSES 1993	LESS TOTAL LOSSES 1994 Forecast	NET ADDITIONS 1993	NET ADDITIONS 1994 Forecast
	SOUTH BELOIT GAS, WATER	80	113	48	48	N/A	N/A	128	161
	TOTAL ILLINOIS	5,854	6,562	28,252	204	1,257	1,193	32,849	5,573
INDIANA									
	LAWRENCEBURG GAS CO.	127	100	73	100	N/A	N/A	200	200
	INDIANA NATURAL GAS COR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	INDIANA GAS COMPANY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PEOPLES GAS & POWER CO	20	N/A	97	N/A	N/A	N/A	117	N/A
	MIDWEST NATURAL GAS CO	100	150	223	293	27	N/A	296	443
	NORTHERN INDIANA FUEL &	719	704	302	296	N/A	N/A	1,021	1,000
	OHIO VALLEY GAS CORP. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN INDIANA PUBLIC	N/A	N/A	977	1,075	N/A	N/A	977	1,075
	CITIZENS GAS & COKE UTILI	2,032	N/A	948	N/A	N/A	N/A	2,980	N/A
	KOKOMO GAS & FUEL CO. *	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL INDIANA	2,998	954	2,620	1,764	27	N/A	5,391	2,518
MICHIGAN									
	MICHIGAN CONSOLIDATED	N/A	N/A	16,916	17,000	4,000	4,000	12,916	13,000
	MICHIGAN GAS UTILITIES C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CONSUMERS POWER CO.	18,286	19,016	1,500	3,000	N/A	N/A	19,786	22,016
	BATTLE CREEK GAS COMPA	371	N/A	156	N/A	334	175	193	(175)
	MICHIGAN GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MICHIGAN	18,657	19,016	18,572	20,000	4,334	4,175	32,895	34,843
OHIO									
	DAYTON POWER & LIGHT	428	N/A	N/A	N/A	N/A	N/A	428	N/A
	EAST OHIO GAS CO.	7,327	7,400	8,100	N/A	N/A	N/A	15,427	7,400
	OHIO GAS CO. *	335	400	427	590	102	101	660	699
	CINCINNATI GAS & ELECTRI	7,342	7,000	1,629	1,500	N/A	N/A	8,971	8,500
	COLUMBIA GAS OF OHIO	14,799	14,449	3,629	3,825	3,795	1,965	14,633	16,309
	WEST OHIO GAS CO.	421	N/A	409	N/A	N/A	N/A	830	N/A
	TOTAL OHIO	30,652	29,249	14,194	5,915	3,897	2,066	40,949	33,098
WISCONSIN									
	WISCONSIN NATURAL GAS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MADISON GAS & ELECTRIC	1,586	1,671	660	602	N/A	N/A	2,266	2,673
	WISCONSIN PUBLIC SERVIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WISCONSIN FUEL & LIGHT C	613	613	215	215	10	10	818	818
	WISCONSIN POWER & LIGHT	2,136	2,335	915	1,001	N/A	N/A	3,051	3,336
	WISCONSIN SOUTHERN GA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WISCONSIN GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL WISCONSIN	4,335	4,619	1,810	2,018	10	10	6,136	6,827
	TOTAL EAST NORTH CENTR	62,496	60,802	85,448	29,901	9,525	7,444	118,219	82,259
WEST NORTH CENTRAL								127,408	89,282
IOWA									
	MIDWEST GAS, DIV. OF MID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CEDAR FALLS UTILITIES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	35	35	111	111	N/A	N/A	146	146
	PEOPLES NATURAL GAS (UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	IOWA-ILLINOIS GAS & ELECT	2,471	2,200	233	121	226	190	2,478	2,131
	IES UTILITIES, INC.	1,523	N/A	1,236	2,811	N/A	N/A	2,759	2,811
	TOTAL IOWA	4,029	2,235	1,579	3,043	226	190	5,382	5,088
KANSAS									
	PEOPLES NATURAL GAS (UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	KPL GAS SERVICE *	N/A	N/A	4,200	N/A	N/A	N/A	4,200	N/A
	KANSAS PUBLIC SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	1,063	1,063	50	50	N/A	N/A	1,113	1,113
	ARKANSAS LOUISIANA GAS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MIDWEST ENERGY, INC.	90	50	5	4	20	10	75	44
	TOTAL KANSAS	1,153	1,113	4,255	54	20	10	5,388	1,157
MINNESOTA									
	MINNEGASCO, INC. *	N/A	N/A	1,000	N/A	N/A	N/A	1,000	N/A
	MIDWEST GAS, DIV. OF MID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHERN STATES POWER	8,086	N/A	5,363	N/A	300	N/A	11,139	N/A
	NORTHERN MINNESOTA UTI	50	40	608	1,207	20	20	638	1,227
	CITY OF DULUTH	101	125	345	380	30	25	416	480
	PEOPLES NATURAL GAS (UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AUSTIN UTILITIES*	21	25	N/A	N/A	44	N/A	(23)	25
	TOTAL MINNESOTA	8,238	190	7,316	1,587	394	45	13,160	1,732
MISSOURI									
	KPL GAS SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UNITED CITIES GAS CO.	100	131	77	77	N/A	N/A	177	208
	ASSOCIATED NATURAL GAS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ST. JOSEPH LIGHT & POWE	28	30	18	45	46	45	N/A	30
	CITY OF SPRINGFIELD	1,278	N/A	N/A	N/A	N/A	N/A	1,278	N/A
	MISSOURI PUBLIC SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LACLEDE GAS CO.	6,063	6,100	1,362	1,360	3,049	3,050	4,376	4,430
	UNION ELECTRIC COMPANY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MISSOURI	7,470	6,261	1,457	1,502	3,095	3,095	5,832	4,668
NEBRASKA									

Appendix 3 -- Additions from New Construction and Conversions

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1993	ADDITIONS FROM NEW CONSTRUCTION 1994 Forecast	TOTAL CONVERSIONS TO GAS 1993	TOTAL CONVERSIONS TO GAS 1994 Forecast	LESS TOTAL LOSSES 1993	LESS TOTAL LOSSES 1994 Forecast	NET ADDITIONS 1993	NET ADDITIONS 1994 Forecast
	PEOPLES NATURAL GAS (UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	METROPOLITAN UTILITIES DI	2,388	2,300	182	200	N/A	N/A	2,570	2,500
	MIDWEST GAS, DIV. OF MID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MINNEGASCO, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	HASTINGS UTILITIES	73	N/A	N/A	N/A	37	N/A	36	N/A
	K N ENERGY, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	NORTHWESTERN PUBLIC SE	823	300	N/A	N/A	N/A	N/A	823	300
	TOTAL NEBRASKA	3,064	2,800	182	200	37	N/A	3,229	2,800
NORTH DAKOTA									
	MONTANA-DAKOTA UTILITIE	536	500	341	300	23	25	854	775
	TOTAL NORTH DAKOTA	536	500	341	300	23	25	854	775
SOUTH DAKOTA									
	MONTANA-DAKOTA UTILITIE	443	500	388	4,000	7	10	824	4,490
	NORTHWESTERN PUBLIC SE	1,652	1,700	N/A	N/A	N/A	N/A	1,652	1,700
	MIDWEST GAS, DIV. OF MID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MINNEGASCO, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL SOUTH DAKOTA	2,095	2,200	388	4,000	7	10	2,476	6,190
	TOTAL WEST NORTH CENTR	24,805	15,099	15,518	10,886	3,802	3,335	36,321	22,450
	TOTAL MIDWEST	87,101	75,701	80,966	40,587	13,327	10,779	154,540	105,309
SOUTH ATLANTIC									
DELAWARE									
	DELMARVA POWER & LIGHT	N/A	N/A	2,903	2,750	N/A	N/A	2,903	2,750
	CHESAPEAKE UTILITIES CO	373	N/A	354	N/A	4	N/A	723	N/A
	TOTAL DELAWARE	373	N/A	3,257	2,750	4	N/A	3,626	2,750
DISTRICT OF COLUMBIA									
	WASHINGTON GAS	877	2,563	425	425	46	N/A	1,256	2,988
	TOTAL WASHINGTON	877	2,563	425	425	46	N/A	1,256	2,988
FLORIDA									
	PEOPLES GAS SYSTEM, INC.	1,655	1,200	53,654	54,900	N/A	N/A	55,309	56,100
	CHESAPEAKE UTILITIES CO	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL FLORIDA	1,655	1,200	53,654	54,900	N/A	N/A	55,309	56,100
GEORGIA									
	ATLANTA GAS LIGHT COMP	25,099	25,281	3,473	3,680	N/A	N/A	28,572	28,961
	UNITED CITIES GAS CO.	1,025	1,373	140	152	N/A	N/A	1,165	1,525
	TOTAL GEORGIA	26,124	26,654	3,613	3,832	N/A	N/A	29,737	30,486
MARYLAND									
	WASHINGTON GAS	8,663	9,066	250	275	80	N/A	8,833	9,341
	COLUMBIA GAS OF MD	193	252	123	130	149	14	167	368
	BALTIMORE GAS & ELECTRI	6,383	7,270	720	1,825	249	1,278	6,854	7,817
	CHESAPEAKE UTILITIES CO	140	200	N/A	N/A	N/A	N/A	140	200
	TOTAL MARYLAND	15,379	16,788	1,093	2,230	478	1,292	15,994	17,726
NORTH CAROLINA									
	PUBLIC SERVICE OF NC*	7,100	8,500	3,800	3,300	1,250	1,150	8,650	10,650
	CITY OF WILSON	736	539	264	304	N/A	N/A	1,000	843
	PIEDMONT NATURAL GAS C	6,751	6,041	7,448	7,747	N/A	N/A	14,197	13,788
	NORTH CAROLINA NATURAL	1,822	2,000	3,452	3,275	100	100	5,174	5,175
	TOTAL NORTH CAROLINA	16,409	17,080	14,962	14,626	1,350	1,250	30,021	30,456
SOUTH CAROLINA									
	SOUTH CAROLINA ELECTRIC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	PIEDMONT NATURAL GAS C	1,596	1,232	2,583	2,712	N/A	N/A	4,179	3,944
	UNITED CITIES GAS CO.	17	20	126	134	N/A	N/A	143	154
	TOTAL SOUTH CAROLINA	1,613	1,252	2,709	2,846	N/A	N/A	4,322	4,098
VIRGINIA									
	WASHINGTON GAS	11,485	11,069	210	231	100	N/A	11,595	11,300
	DEPT. OF PUBLIC UTILITIES	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ROANOKE GAS COMPANY	596	500	554	500	N/A	N/A	1,150	1,000
	CITY OF DANVILLE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	COMMONWEALTH GAS SER	4,525	4,272	1,243	1,200	1,413	255	4,355	5,217
	VIRGINIA NATURAL GAS	6,121	6,094	2,592	2,824	35	N/A	8,678	8,918
	CITY OF CHARLOTTESVILLE	124	100	58	47	3	N/A	179	147
	UNITED CITIES GAS CO.	221	265	187	235	N/A	N/A	408	500
	TOTAL VIRGINIA	23,072	22,300	4,844	5,037	1,551	255	26,365	27,082
WEST VIRGINIA									
	MOUNTAINEER GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	HOPE GAS CO.*	736	750	81	90	10	67	809	773
	TOTAL WEST VIRGINIA	736	750	81	90	10	67	809	773
	TOTAL SOUTH ATLANTIC	86,240	86,587	84,838	86,736	3,439	2,864	167,439	172,459
EAST SOUTH CENTRAL									
ALABAMA									
	HUNTSVILLE UTILITIES GAS	363	465	200	250	28	20	535	695
	MOBILE GAS SERVICE CORP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DECATUR UTILITIES	210	320	110	111	14	16	306	415
	ALABAMA GAS CORP.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CITY OF FLORENCE	209	200	327	265	55	35	481	430
	TOTAL ALABAMA	782	985	637	626	97	71	1,322	1,540

Appendix 3 -- Additions from New Construction and Conversions

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1993	ADDITIONS FROM NEW CONSTRUCTION 1994 Forecast	TOTAL CONVERSIONS TO GAS 1993	TOTAL CONVERSIONS TO GAS 1994 Forecast	LESS TOTAL LOSSES 1993	LESS TOTAL LOSSES 1994 Forecast	NET ADDITIONS 1993	NET ADDITIONS 1994 Forecast
KENTUCKY									
	DELTA NATURAL GAS CO.	125	200	26	55	23	N/A	128	255
	UNION LIGHT, HEAT & POWE	1,494	1,500	147	150	N/A	N/A	1,641	1,650
	LOUISVILLE GAS & ELECTRI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	COLUMBIA GAS OF KY	2,581	2,156	401	229	613	495	2,349	1,890
	WESTERN KENTUCKY GAS C	1,784	1,750	741	850	45	45	2,480	2,555
	TOTAL KENTUCKY	5,944	5,606	1,315	1,284	681	540	6,578	6,350
MISSISSIPPI									
	MISSISSIPPI VALLEY GAS CO	3,355	3,750	842	780	1,208	1,300	2,789	3,230
	ENTEX, INC.	1,417	1,500	632	500	634	300	1,815	1,700
	TOTAL MISSISSIPPI	4,772	5,250	1,474	1,280	1,842	1,600	4,404	4,930
TENNESSEE									
	KNOXVILLE UTILITIES BOARD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	CHATTANOOGA GAS COMP	1,200	N/A	2,032	N/A	N/A	N/A	3,232	N/A
	MIDDLE TENNESSEE NATUR	370	600	1,320	1,600	260	60	1,430	2,140
	NASHVILLE GAS CO.	2,702	2,700	2,158	3,000	861	N/A	4,000	5,700
	MEMPHIS LIGHT, GAS & WAT	2,920	N/A	N/A	N/A	N/A	N/A	2,920	N/A
	UNITED CITIES GAS CO.	3,703	4,554	2,136	2,155	N/A	N/A	5,839	6,709
	TOTAL TENNESSEE	10,895	7,854	7,647	6,755	1,121	60	17,421	14,549
	TOTAL EAST SOUTH CENTR	22,393	19,695	11,073	9,845	3,741	2,271	29,725	27,389
WEST SOUTH CENTRAL									
ARKANSAS									
	ARKANSAS LOUISIANA GAS	2,900	2,900	N/A	N/A	N/A	N/A	2,900	2,900
	ARKANSAS WESTERN GAS	N/A	N/A	2,672	2,000	N/A	N/A	2,672	2,000
	ASSOCIATED NATURAL GAS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL ARKANSAS	2,900	2,900	2,672	2,000	N/A	N/A	5,772	4,900
LOUISIANA									
	ARKANSAS LOUISIANA GAS	800	800	N/A	N/A	N/A	N/A	800	800
	ENTEX,DIVISION OF ARKLA, I	802	636	189	189	820	720	351	87
	LOUISIANA GAS SERVICE C	1,780	N/A	40	N/A	N/A	N/A	1,800	N/A
	NEW ORLEANS PUBLIC SER	93	95	N/A	N/A	30	40	63	55
	SOUTH COAST GAS COMPA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TRANS LOUISIANA GAS COM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL LOUISIANA	3,455	1,533	218	189	850	760	3,023	942
OKLAHOMA									
	KPL GAS SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	OKLAHOMA NATURAL GAS C	6,843	7,100	3,355	3,475	1,200	1,300	8,998	9,275
	ARKANSAS LOUISIANA GAS	470	470	N/A	N/A	N/A	N/A	470	470
	TOTAL OKLAHOMA	7,313	7,570	3,355	3,475	1,200	1,300	9,468	9,745
TEXAS									
	CITY PUBLIC SERVICE	2,999	4,984	N/A	N/A	1,665	3,992	1,334	972
	ENTEX, DIVISION OF ARKLA,	16,757	19,300	1,220	1,320	177	162	17,800	20,458
	ARKANSAS LOUISIANA GAS	180	180	N/A	N/A	N/A	N/A	180	180
	LONE STAR GAS CO.	28,947	28,950	139	200	7,417	7,372	21,669	21,778
	TOTAL TEXAS	48,883	53,394	1,359	1,520	9,259	11,526	40,983	43,388
	TOTAL WEST SOUTH CENTR	62,551	65,397	7,804	7,184	11,109	13,586	59,246	58,975
	TOTAL SOUTH	171,184	173,679	103,515	103,845	16,289	18,721	256,410	256,803
MOUNTAIN									
ARIZONA									
	SOUTHWEST GAS CORP.	6,068	6,200	459	500	N/A	N/A	6,527	6,700
	CITIZENS UTILITIES CO.	97	110	N/A	N/A	3	3	94	107
	SOUTHWEST GAS CORP.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL ARIZONA	6,165	6,310	459	500	3	3	6,621	6,807
COLORADO									
	CITY OF COLORADO SPRING	2,844	2,000	N/A	N/A	N/A	N/A	2,844	2,000
	PUBLIC SERVICE CO OF COL	11,530	15,430	N/A	N/A	N/A	N/A	11,530	15,430
	PEOPLES NATURAL GAS (UT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	K N ENERGY, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	GREELEY GAS COMPANY	1,896	2,400	67	100	N/A	N/A	1,963	2,500
	TOTAL COLORADO	16,270	19,830	67	100	N/A	N/A	16,357	19,930
IDAHO									
	WASHINGTON WATER POWE	1,200	N/A	1,200	N/A	N/A	N/A	2,400	N/A
	INTERMOUNTAIN GAS CO.	5,392	N/A	4,958	N/A	471	N/A	9,879	N/A
	TOTAL IDAHO	6,592	N/A	6,158	N/A	471	N/A	12,279	N/A
MONTANA									
	MONTANA-DAKOTA UTILITIE	672	1,000	317	330	24	25	965	1,305
	GREAT FALLS GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL MONTANA	672	1,000	317	330	24	25	965	1,305
NEVADA									
	SOUTHWEST GAS CORP.	18,000	18,000	568	450	50	50	18,518	18,400
	SIERRA PACIFIC POWER CO	1,841	2,603	684	540	N/A	N/A	2,525	3,143
	SOUTHWEST GAS CORP.*	1,951	2,000	789	800	N/A	N/A	2,740	2,800
	TOTAL NEVADA	21,792	20,603	2,041	1,790	50	50	23,783	22,343
NEW MEXICO									
	GAS COMPANY OF NEW ME	4,495	5,036	1,726	1,309	36	18	6,185	6,329

Appendix 3 -- Additions from New Construction and Conversions

DIVISION / STATE	COMPANY	ADDITIONS FROM NEW CONSTRUCTION 1993	ADDITIONS FROM NEW CONSTRUCTION 1994 Forecast	TOTAL CONVERSIONS TO GAS 1993	TOTAL CONVERSIONS TO GAS 1994 Forecast	LESS TOTAL LOSSES 1993	LESS TOTAL LOSSES 1994 Forecast	NET ADDITIONS 1993	NET ADDITIONS 1994 Forecast
NEW MEXICO									
	GAS COMPANY OF NEW M	4,485	5,036	1,728	1,309	36	18	6,186	6,329
	TOTAL NEW MEXICO	4,485	5,036	1,728	1,309	36	18	6,185	6,329
UTAH									
	MOUNTAIN FUEL SUPPLY	12,872	15,883	2,477	N/A	680	N/A	14,669	15,883
	TOTAL UTAH	12,872	15,883	2,477	N/A	680	N/A	14,669	15,883
WYOMING									
	MONTANA-DAKOTA UTILITI	149	150	28	30	3	5	174	175
	CODY	68	N/A	6	N/A	2	N/A	74	N/A
	K N ENERGY, INC.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WYOMING GAS CO.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	MOUNTAIN FUEL SUPPLY	490	163	N/A	N/A	14	N/A	478	163
	TOTAL WYOMING	707	313	36	30	19	5	724	338
	TOTAL MOUNTAIN	68,565	68,758	13,301	4,059	1,283	99	81,583	72,715
PACIFIC									
CALIFORNIA									
	SAN DIEGO GAS & ELECT	4,518	4,408	N/A	N/A	N/A	N/A	4,518	4,408
	CITY OF LONG BEACH GA	31	N/A	N/A	N/A	70	N/A	(39)	N/A
	SOUTHERN CALIFORNIA G	58,386	N/A	14,087	N/A	27,238	N/A	45,245	N/A
	SOUTHWEST GAS CORP.	453	500	661	630	N/A	N/A	1,114	1,130
	PACIFIC GAS AND ELECTR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	TOTAL CALIFORNIA	61,388	4,905	14,758	630	27,308	N/A	48,838	5,538
OREGON									
	NORTHWEST NATURAL GA	8,403	8,850	8,179	7,858	1,286	N/A	15,296	16,708
	WASHINGTON WATER PO	2,100	N/A	4,200	N/A	N/A	N/A	6,300	N/A
	CASCADE NATURAL GAS	804	900	N/A	N/A	N/A	N/A	804	900
	TOTAL OREGON	11,307	9,750	12,379	7,858	1,286	N/A	22,400	17,608
WASHINGTON									
	WASHINGTON NATURAL G	11,072	11,980	11,101	9,329	1,165	1,150	21,008	20,139
	CASCADE NATURAL GAS	3,549	4,100	N/A	N/A	N/A	N/A	3,549	4,100
	WASHINGTON WATER PO	2,400	N/A	3,700	N/A	N/A	N/A	6,100	N/A
	NORTHWEST NATURAL GA	2,156	1,167	819	737	329	N/A	2,645	1,904
	TOTAL WASHINGTON	19,178	17,247	15,620	10,066	1,494	1,150	33,302	26,163
	TOTAL PACIFIC	91,869	31,902	42,757	18,552	30,088	1,150	104,538	49,304
	TOTAL WEST	181,434	100,657	56,058	22,611	31,371	1,249	186,121	122,019
	TOTAL US	485,975	422,641	311,437	236,487	74,329	41,197	721,446	617,731

Appendix 4

Census Regions, Divisions and Corresponding States

NORTHEAST

New England
- New England
- Maine
- Massachusetts
- New Hampshire
- Rhode Island
- Vermont

Middle Atlantic
- New Jersey
- New York
- Pennsylvania

MIDWEST

East North Central
- Illinois
- Indiana
- Michigan
- Ohio
- Wisconsin

West North Central
- Iowa
- Kansas
- Minnesota
- Missouri
- Nebraska
- North Dakota
- South Dakota

SOUTH

South Atlantic
- Delaware
- District of Columbia
- Florida
- Georgia
- Maryland
- North Carolina
- South Carolina
- Virginia
- West Virginia

East South Central
- Alabama
- Kentucky
- Mississippi
- Tennessee

West South Central
- Arkansas
- Louisiana
- Oklahoma
- Texas

WEST

Mountain
- Arizona
- Colorado
- Idaho
- Montana
- Nevada
- New Mexico
- Utah
- Wyoming

Pacific
- Alaska
- California
- Hawaii
- Oregon
- Washington